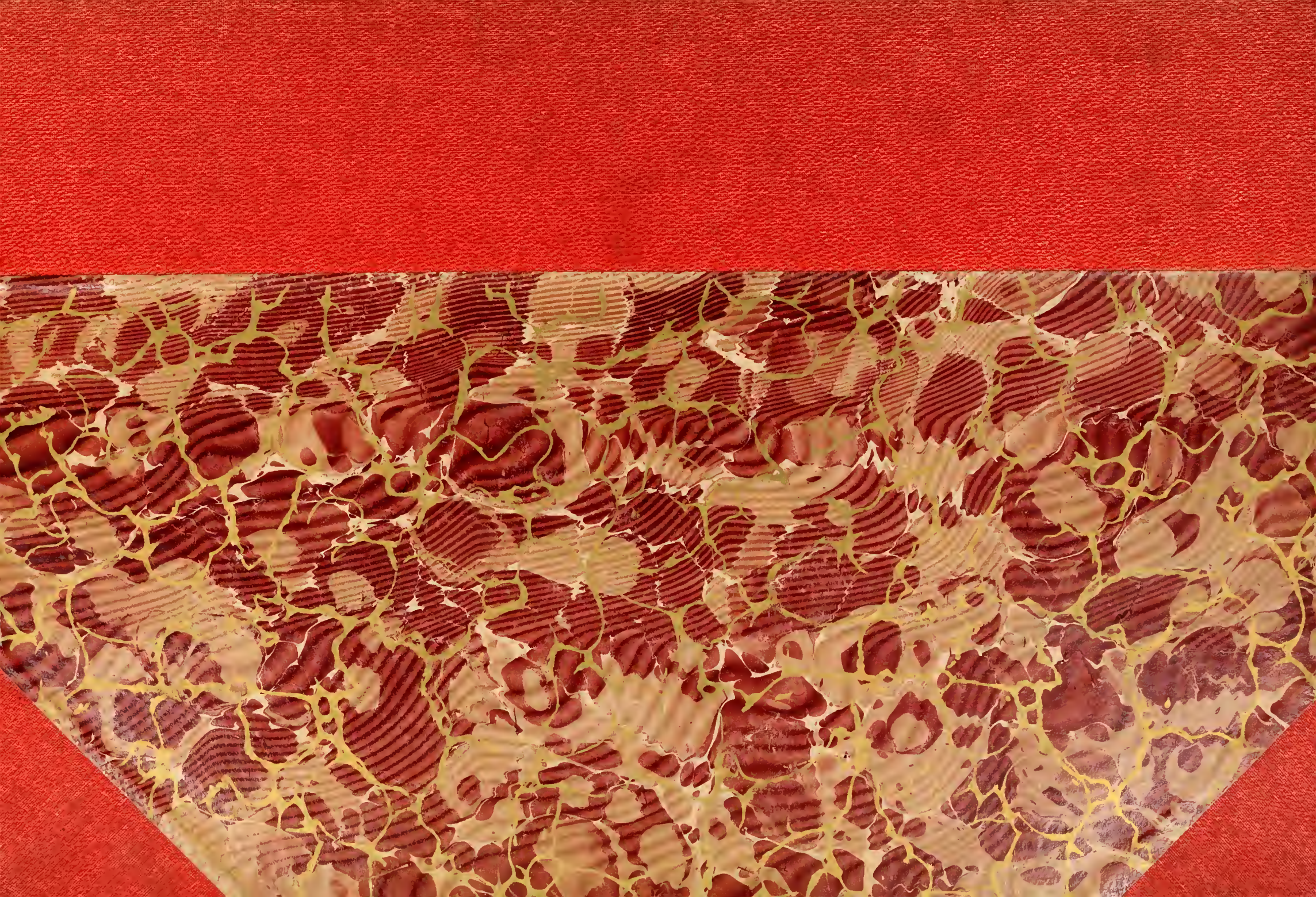

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MEMORIAS

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EXACTAS

FÍSICAS Y NATURALES

DE

MADRID

Tomo XIV—ATLAS

OBRAS

MALACOLÓGICAS

DE

J. G. HIDALGO

Miembro de la Real Academia de Ciencias de Madrid, y de otras Academias y Sociedades extranjeras.

PARTE I

ESTUDIOS PRELIMINARES SOBRE LA FAUNA MALACOLOGICA

DE LAS

ISLAS FILIPINAS

ATLAS

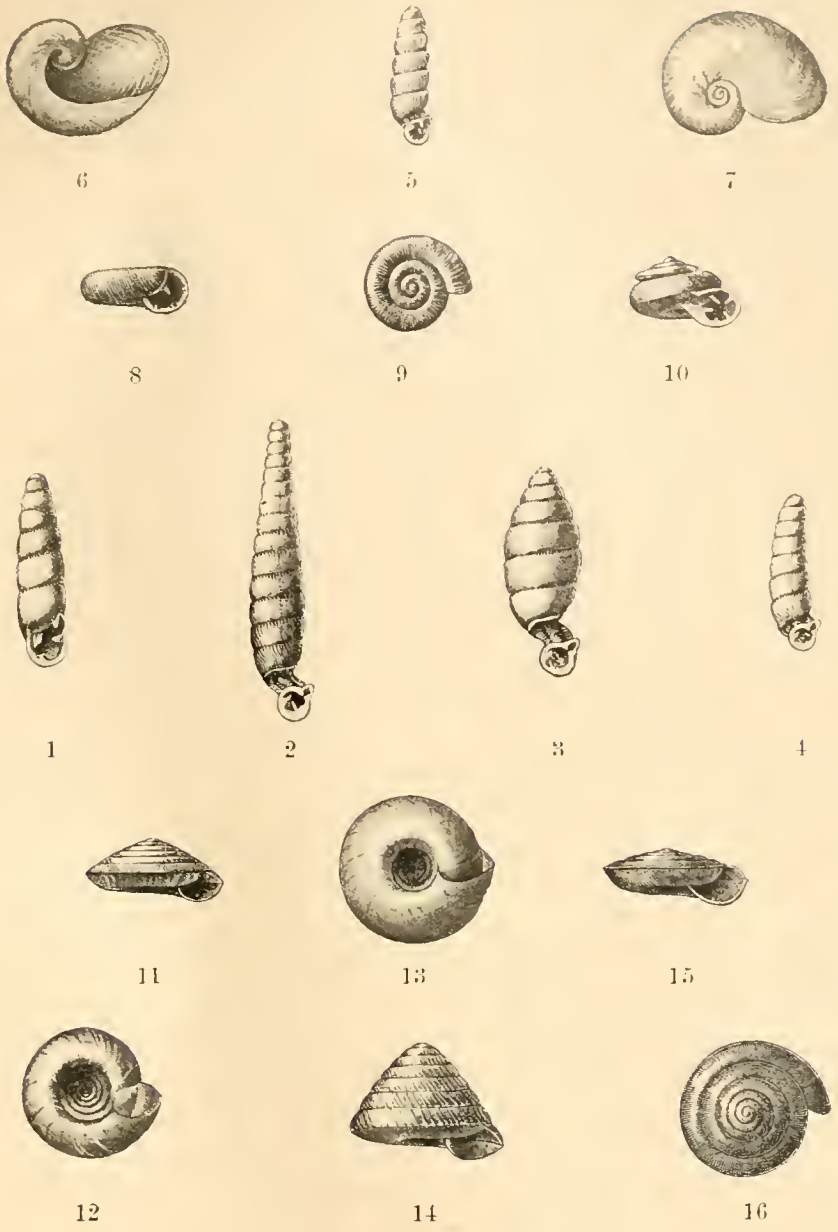
MADRID: 1891
IMPRENTA DE DON LUIS AGUADO
8, Pontejos, 8

ADVERTENCIA

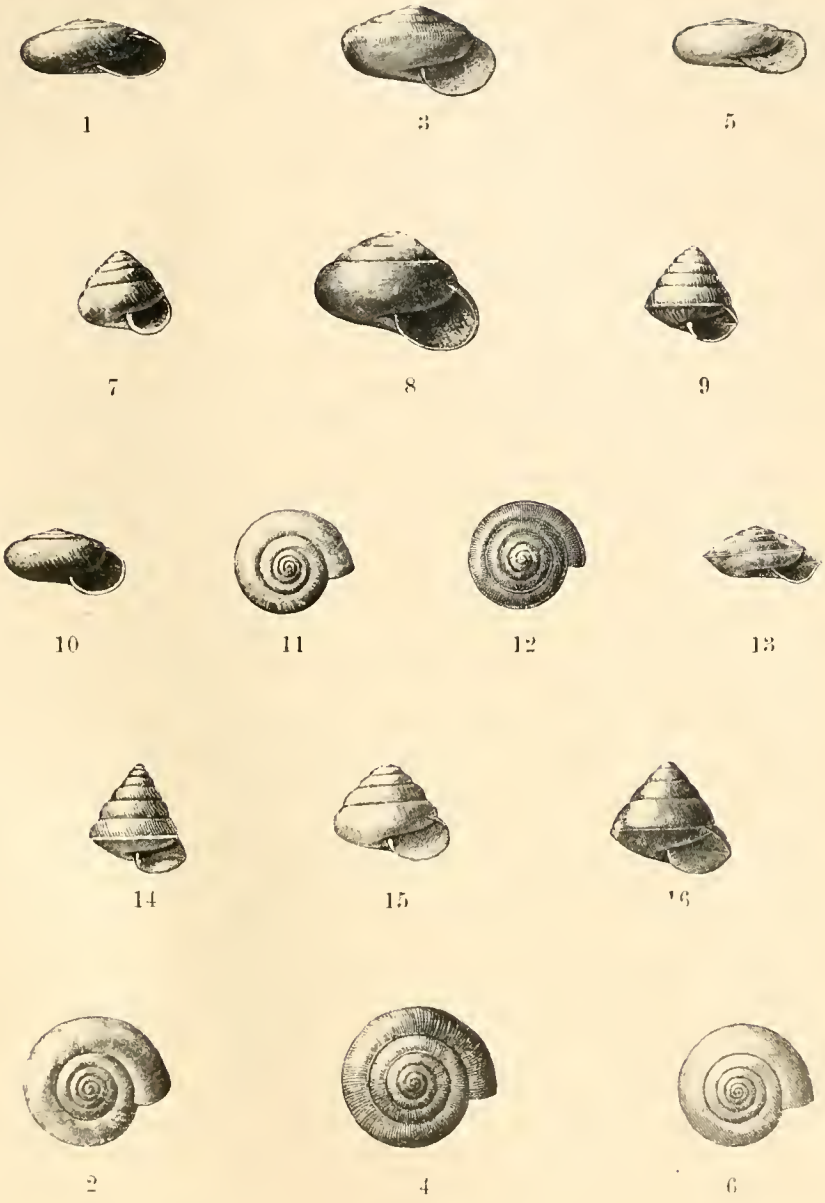
El presente atlas ha sido hecho, bajo mi dirección, por los fotógrafos Sres. Laporta, el impresor Sr. Rivadeneira y el pintor Sr. Arroyo. Todas las figuras son originales, puesto que los fotograbados se hicieron directamente de los ejemplares de mi colección, ó de dibujos muy ampliados cuando las especies eran pequeñas y había dificultad en su reproducción directa.

Mi amigo D. Florentino Azpeitia, que se ocupa con éxito del estudio de los moluscos, se ha prestado desinteresadamente á la ejecución de dichos dibujos, consiguiendo en ellos una exactitud notable, y tanto él como los señores antes citados han puesto de su parte todo lo posible para que el primer atlas sobre moluscos que se publica en España, y acaso también el primero por el procedimiento del fotograbado, resulte con toda la verdad y exactitud necesarias para la fácil determinación de las especies que en él se representan.

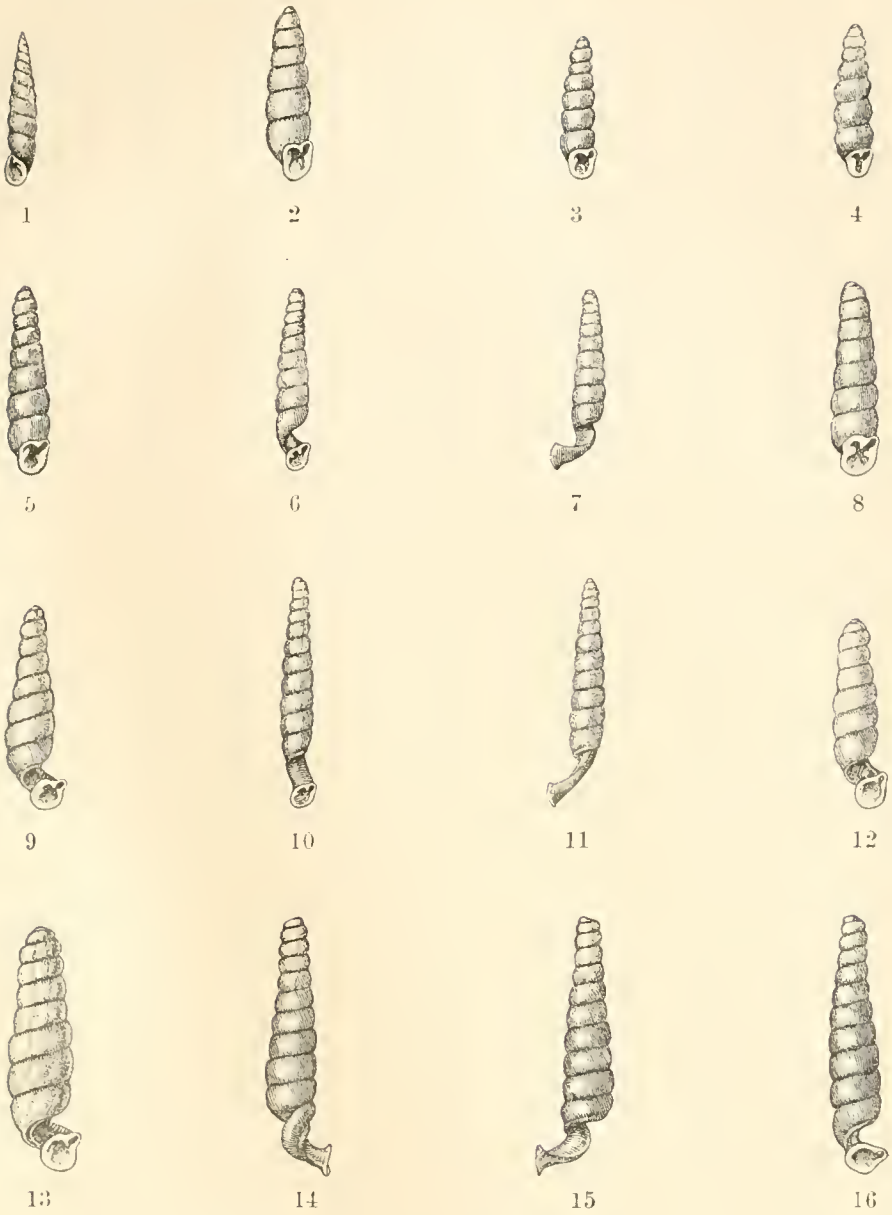
J. G. Hidalgo.



1. Ennea bicolor Hutton ($^4/_1$). 2. E. Möllendorffi Hidalgo ($^2/_1$). 3. E. Morleti Hidalgo. ($^4/_1$). 4. E. Locardi Hidalgo ($^4/_1$). 5. E. Quadrasi Möllendorff ($^5/_1$). 6, 7. Vitrinopsis fasciata Souleyet ($^2/_1$). 8, 9. Patula Philippinensis Semper ($^{10}/_1$). 10. Helix Azpeitiæ Hidalgo ($^5/_1$). 11, 12. Vitrinoconus Sinaitensis Pfeiffer ($^2/_1$). 13, 14. V. cyathellus Pfeiffer ($^3/_1$). 15, 16. Nanina Azpeitiæ Hidalgo ($^2/_1$).



1, 2. Nanina lucidella Pfeiffer ($^{5}/_{1}$).—3, 4. N. glaberrima Semper ($^{4}/_{1}$).—5, 6. N. lactea Semper ($^{2}/_{1}$) —7 N. globulus Möllendorff ($^{5}/_{1}$) —8. N. myops Dohrn ($^{5}/_{1}$).—9. N. pseudositala Möllendorff ($^{5}/_{1}$) —10, 11. N. crystallina Möllendorff ($^{5}/_{1}$) —12. 13. N Reyesi Hidalgo ($^{2}/_{1}$) —14. N. stenopleuris Möllendorff ($^{5}/_{1}$).—15. N. Luzonica Möllendorff ($^{5}/_{1}$).—16. N. pusilla Möllendorff ($^{5}/_{1}$).



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1. Clausilia Cumingiana Pfeiffer.—2. Ennea nitidula Quadras y Möll. (5/1).—3. E. cylindrica Quadras y Möll. (5/1).—4. E. cardiostoma Möllendorff (5/1).—5. E. sericina Möllendorff (5/1).—6, 7. E. eutrachela Möllendorff (5/1).—8. E. Hidalgoi Möllendorff (5/1).—9. E. strangulata Möllendorff (5/1).—10, 11. E. Kochiana Möllendorff (5/1).—12. E. unicristata Möllendorff (5/1).—13. E. bicristata Möllendorff (5/1).—14, 15, 16. E. torta Quadras y Möllendorff (5/1).

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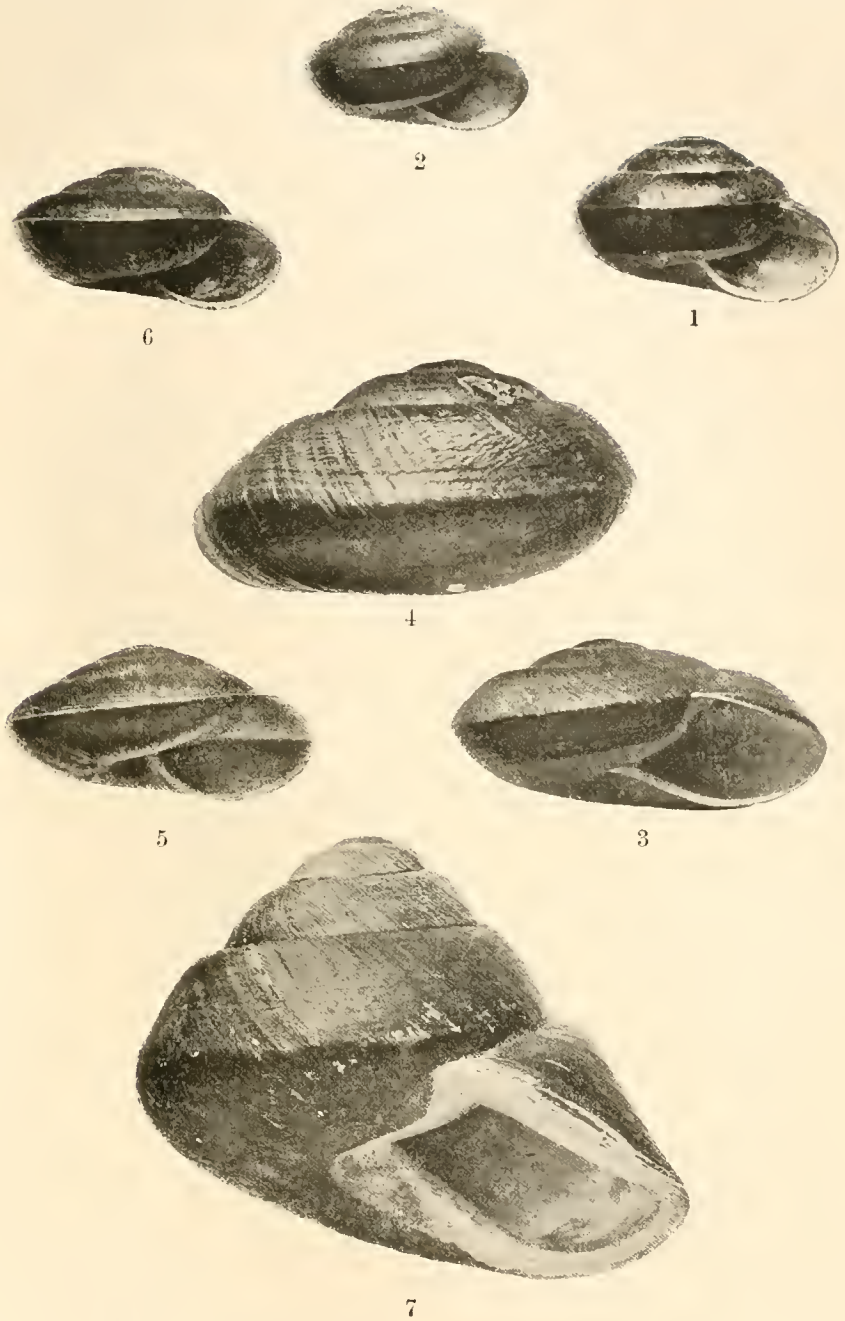
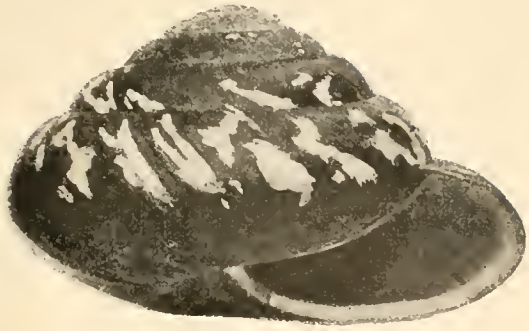
1. Nanina ovum Valenciennes. var. 2.—2. Id. var. 6.—3. N. maxima Pfeiffer.



1. Nanina Mayonensis Hidalgo.—2. Id. var.—3, 4. N. Mülleri Pfeiffer. var.—5. N. semiglobosa Pfeiffer.—6. Id. var. Boacensis.—7. N. ovum Valenciennes. var. 7.



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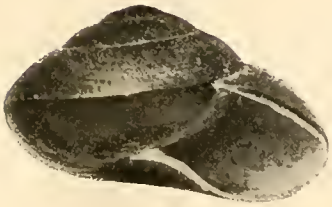

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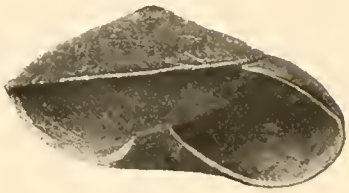

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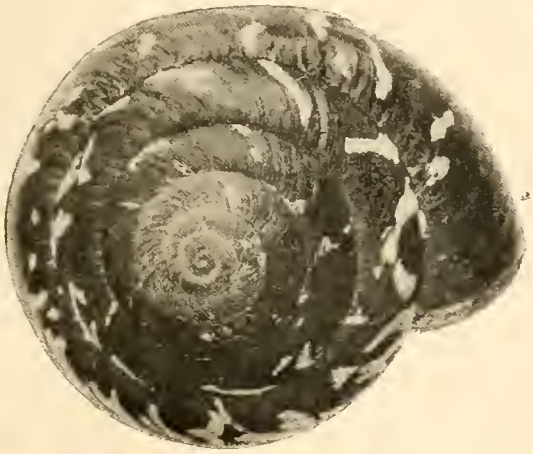

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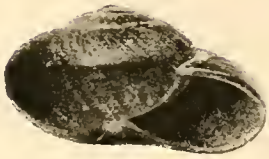

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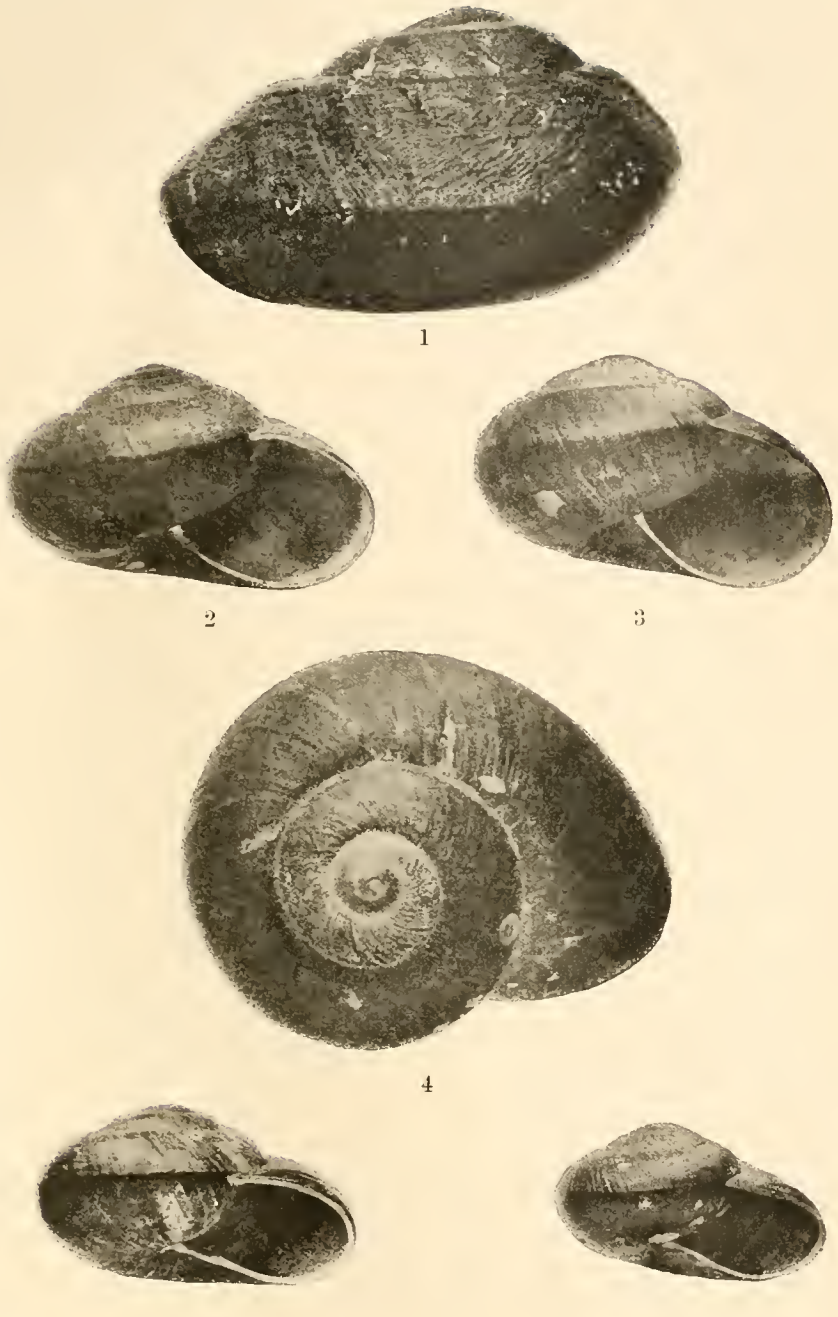
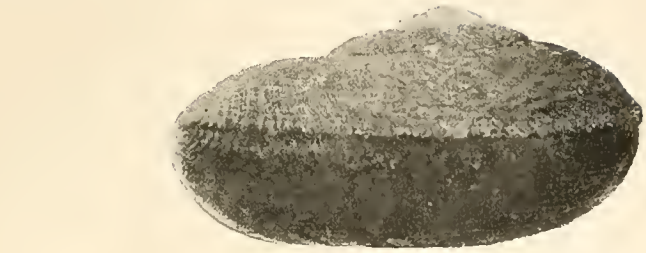
1, 2. Nanina Quadrasi Hidalgo.—3. N. hepática Reeve.—4. N. Schumacheriana Pfeiffer.— 5. N. dvitija Semper. var. B.—6. N. Cuvieriana Lea.



1. Nanina Rhea Pfeiffer.—2. N. Mindanaensis Semper.—3. N. distincta Pfeiffer. var. Leytensis.—4, 5. N. sagittifera Pfeiffer.—6. Id. juvenis.



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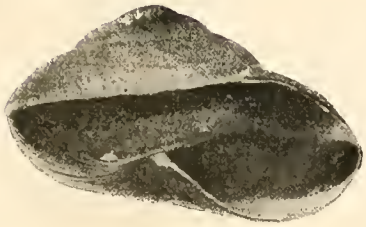

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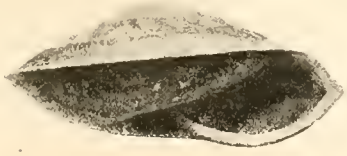

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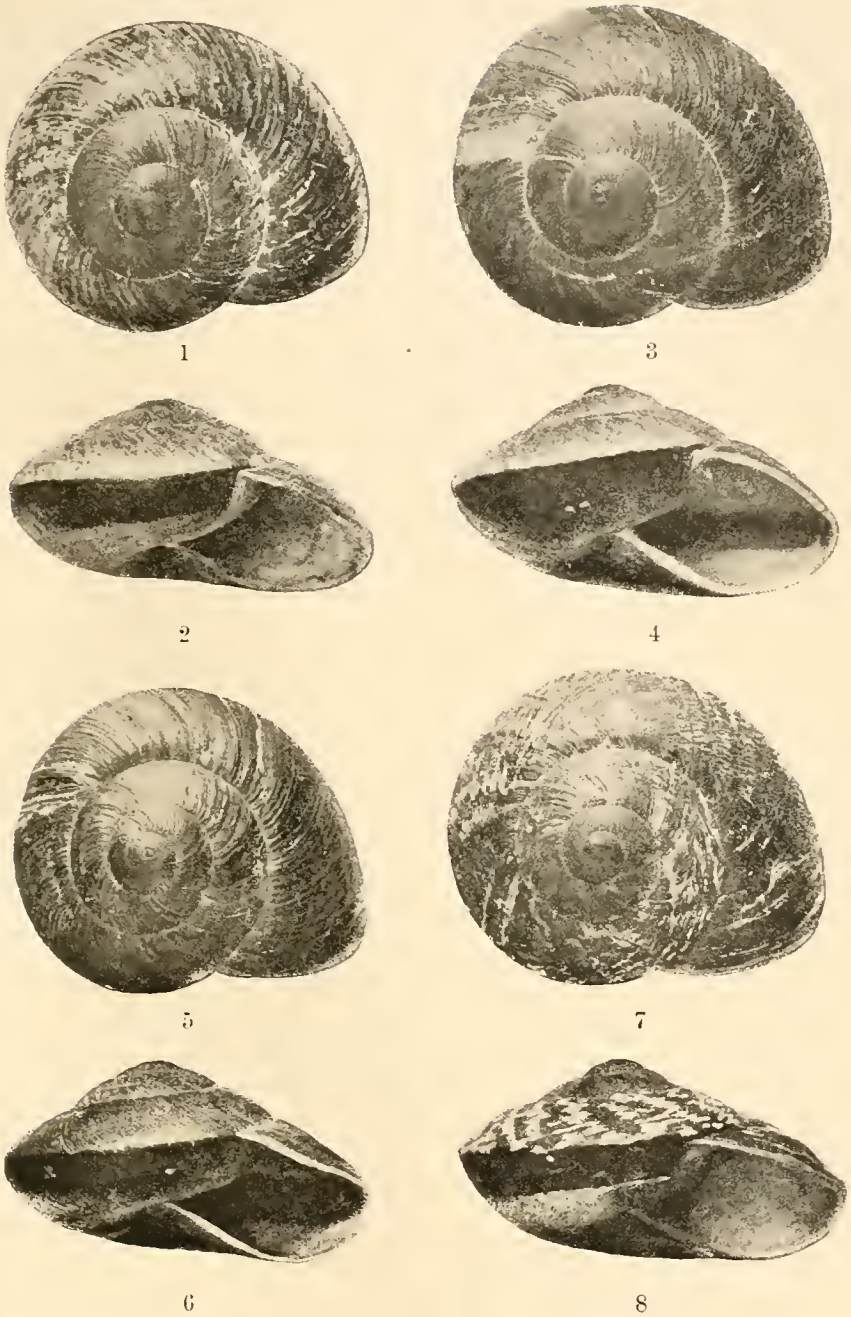
1. Nanina nigrescens Möllendorff.—2, 3. N. Oweniana Pfeiffer.—4. N. globosa Semper.—5. N. semigranosa Sowerby.—6. Id. var. B.—7. N. Blainvilliana Lea.



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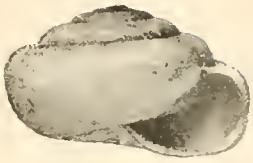

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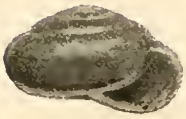

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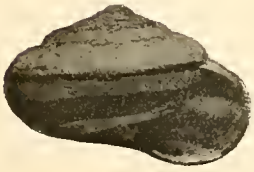

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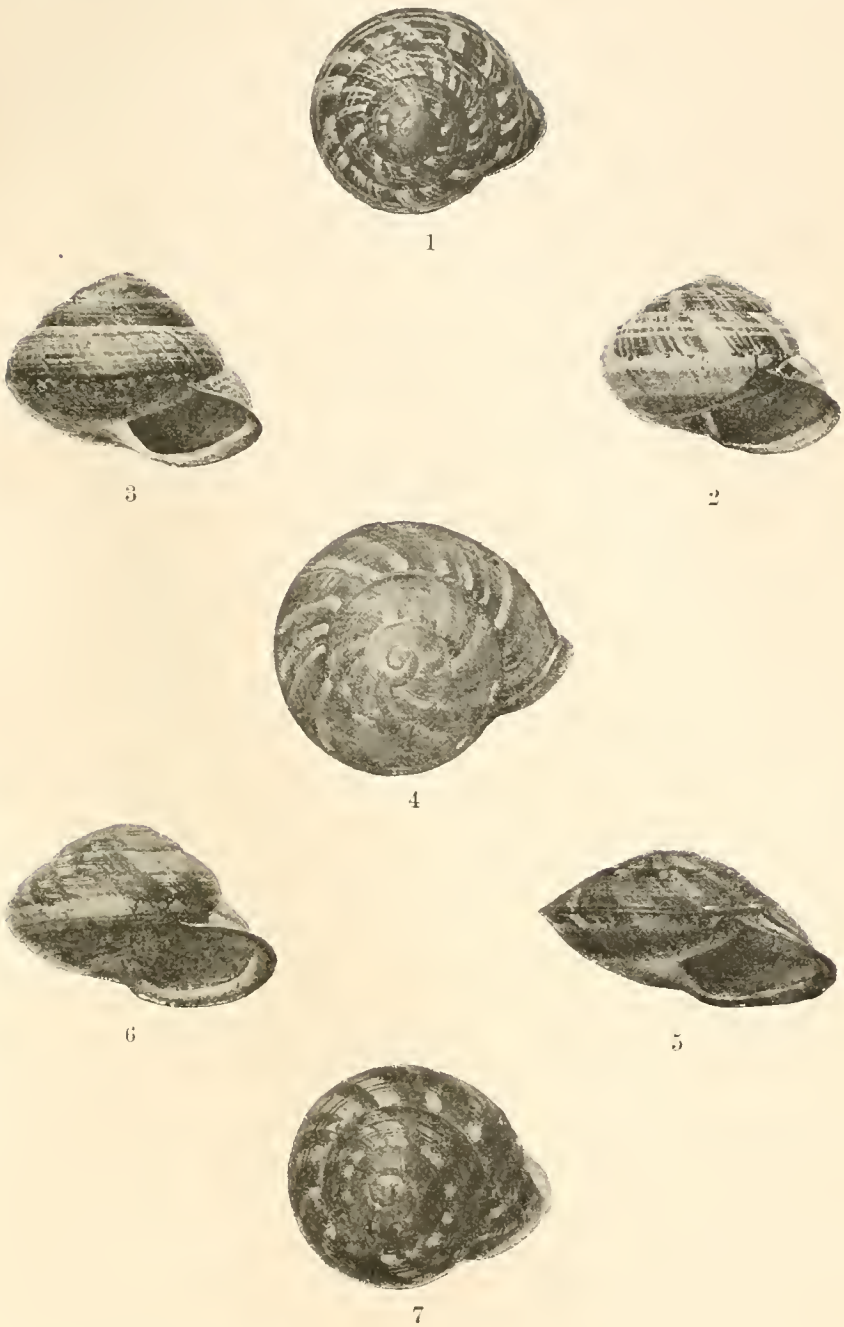
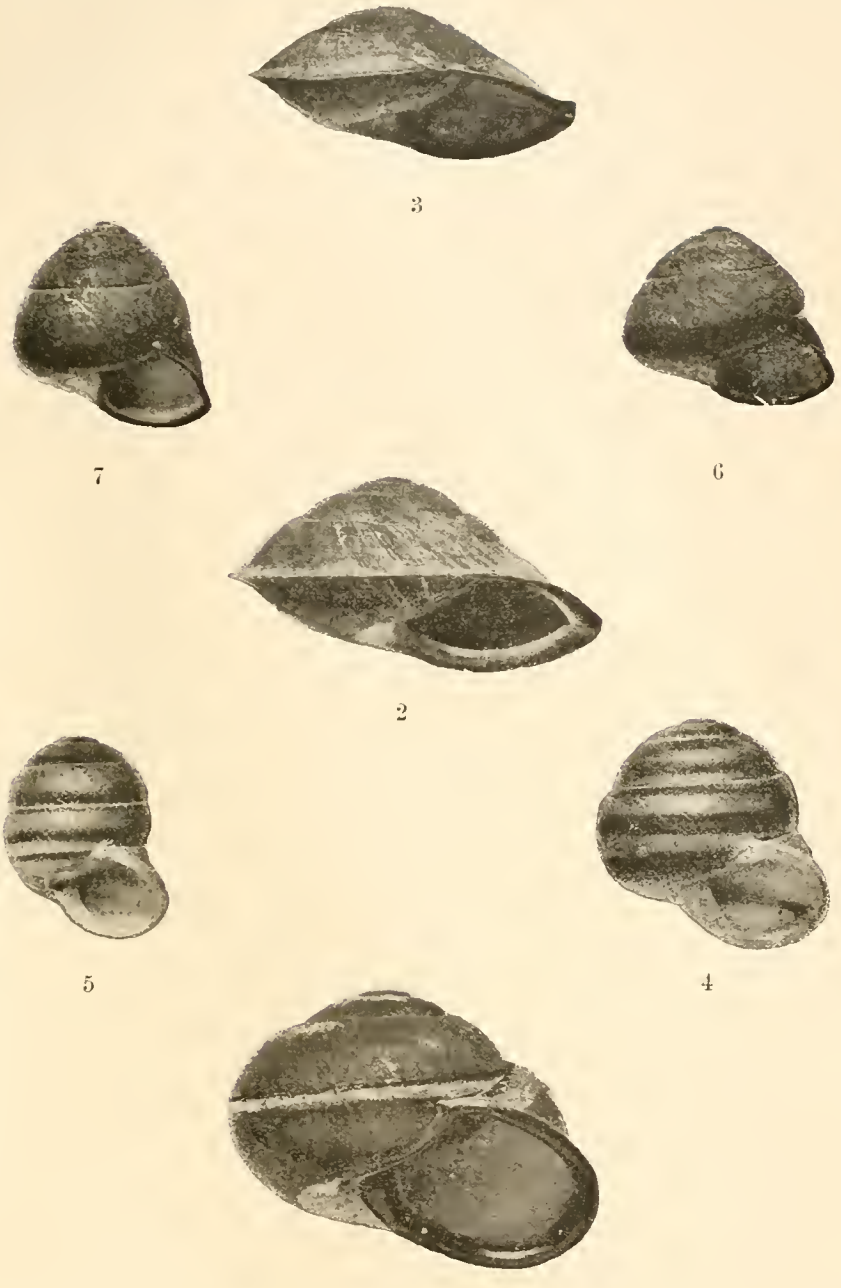
1, 2. Nanina Negrosensis Hidalgo.—3. N. velutina Sowerby.—4. N. Hidalgoi Möllendorff.—5, 6. N. Tagalensis Dohrn, variedades.—7 á 9. N. gummata Sowerby, variedades.



1, 2. Helix Gloynei Sowerby.—3. H. magistra Pfeiffer.—4, 5. H. Zebuensis Broderip.—6, 7. H. Cumingi Pfeiffer.



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1. Helix monochroa Sowerby var. Palawanica.—2. H. Siquijorensis Broderip.—3. Id. var.—4. H. Bintuanensis Hidalgo.—5. Id. var.—6, 7. H. carbonaria Sowerby, var.

1 á 3. Helix Kochiana Möllendorff.—4 á 6. H. Lasallii Eydoux.—7. Id. var.—8, 9. H. scrobiculata Pfeiffer.

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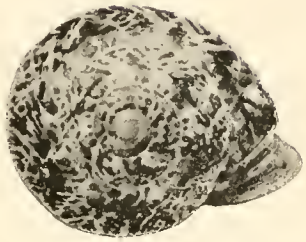

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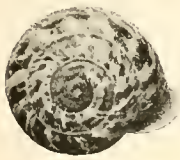

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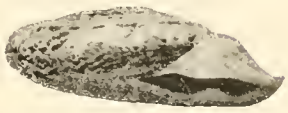

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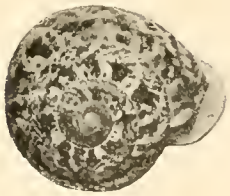

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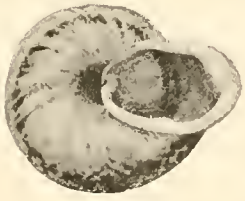

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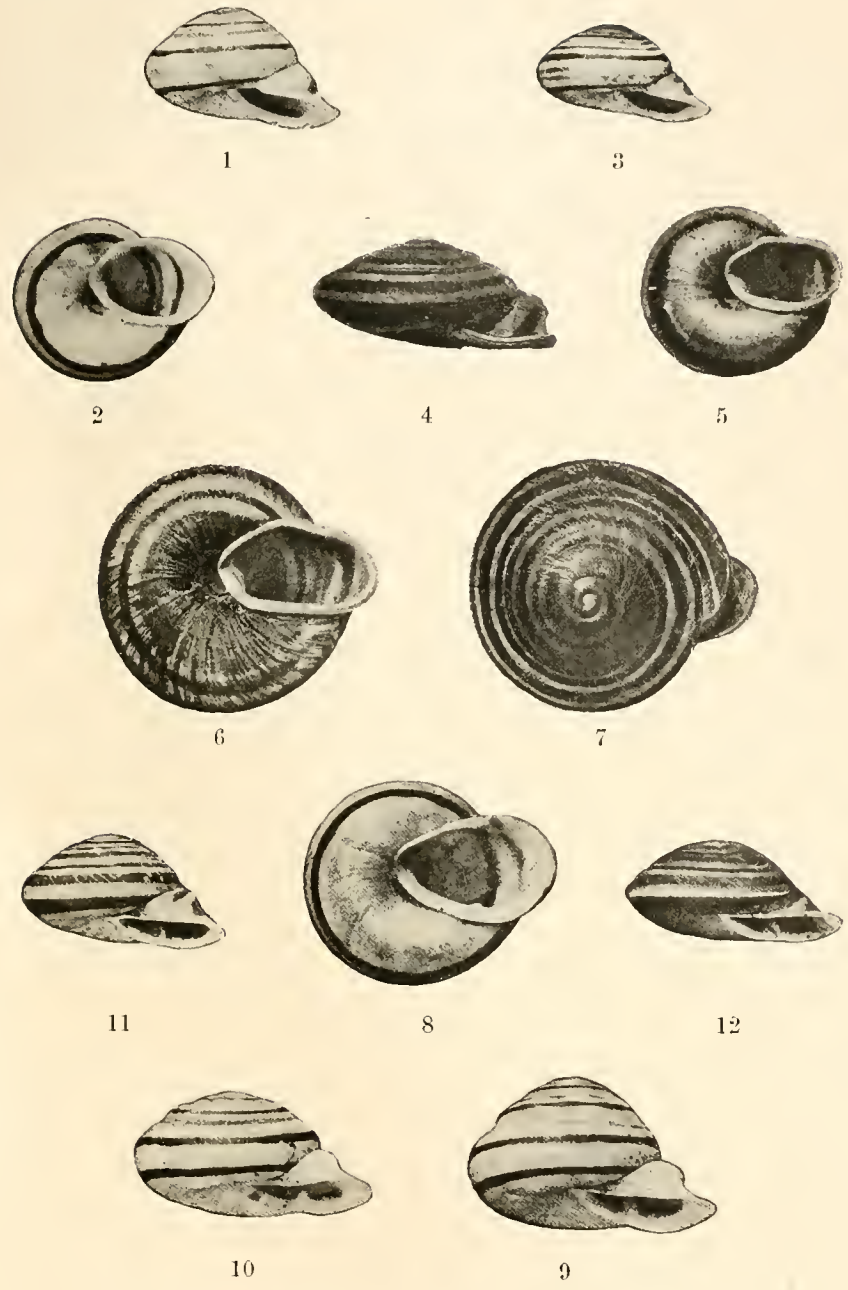
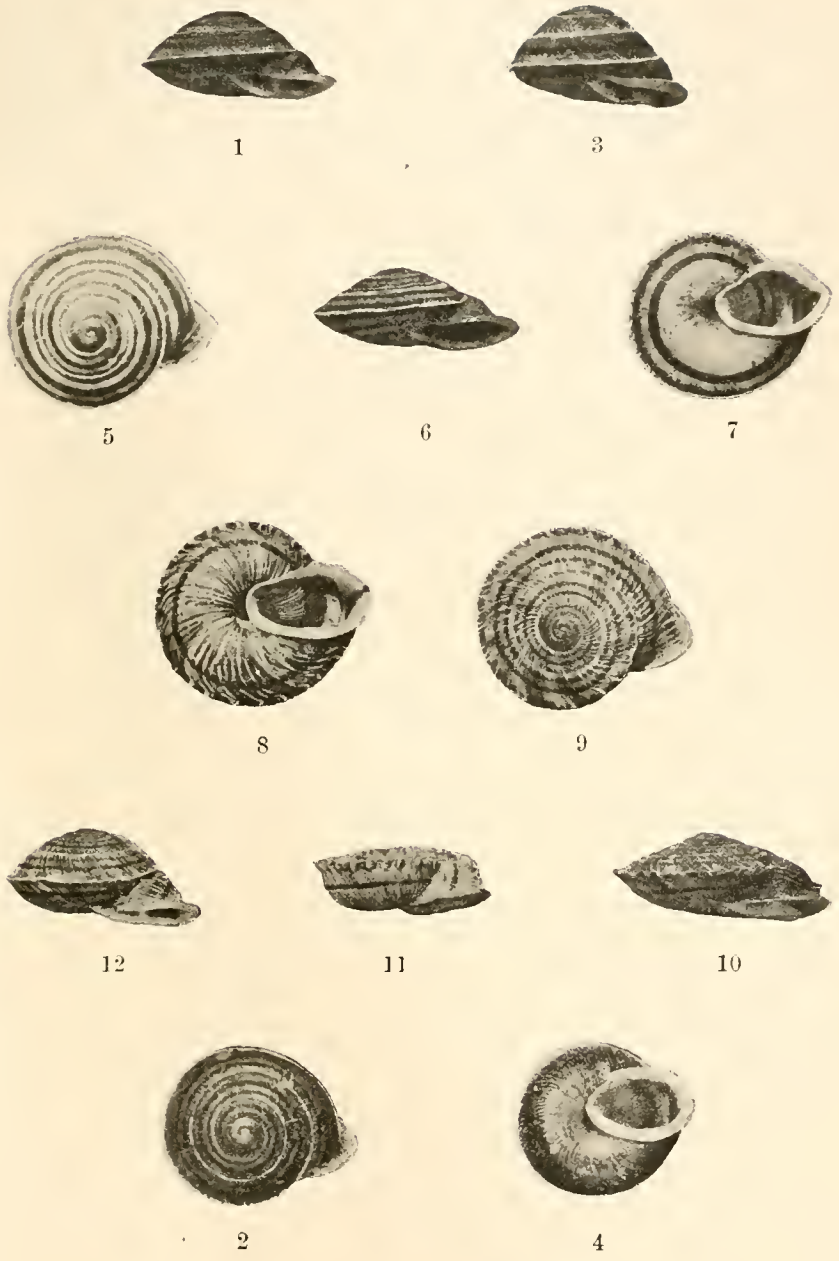
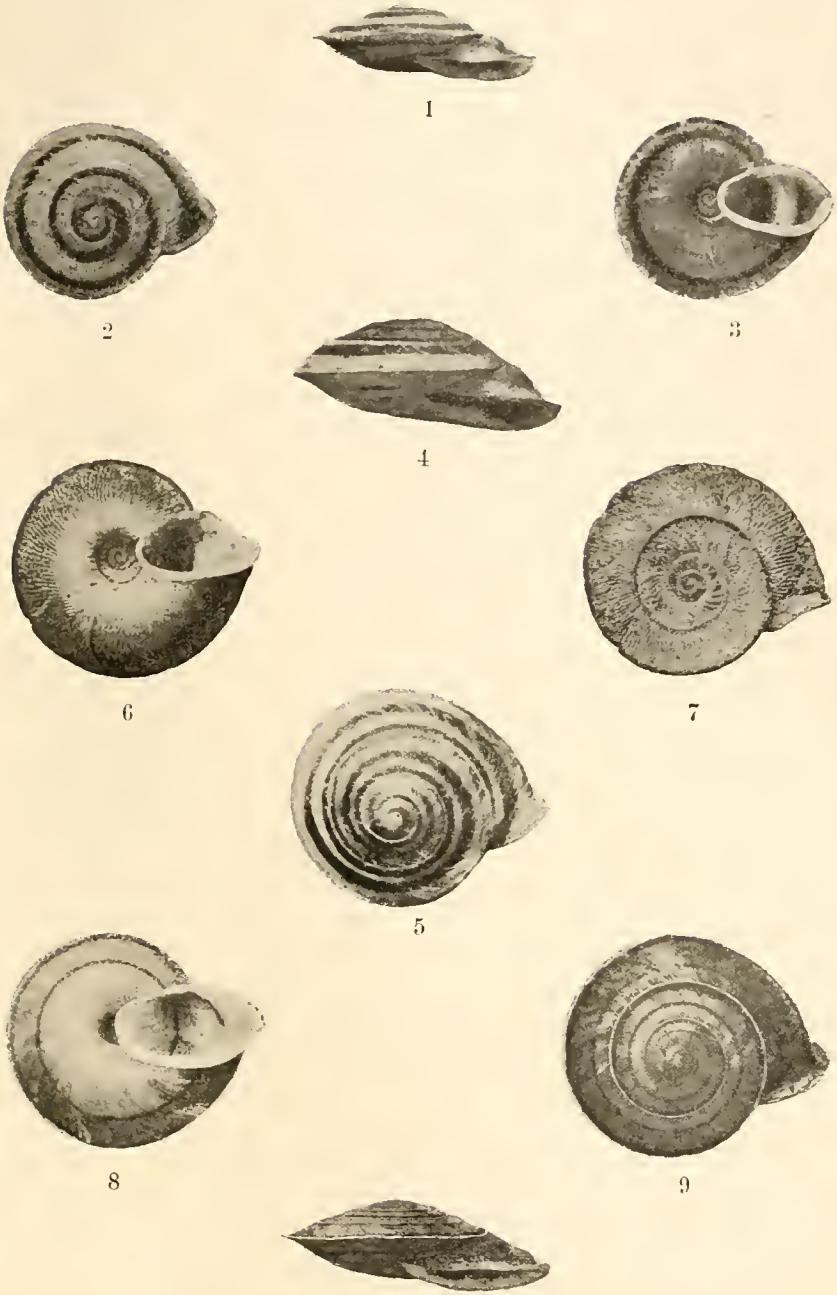
1 á 3. Helix planulata Lamarck, tipo.—4 á 6. Id. variedades.—7 á 9. Helix Listeri Gray, tipo.—10 á 12. Id. variedades.



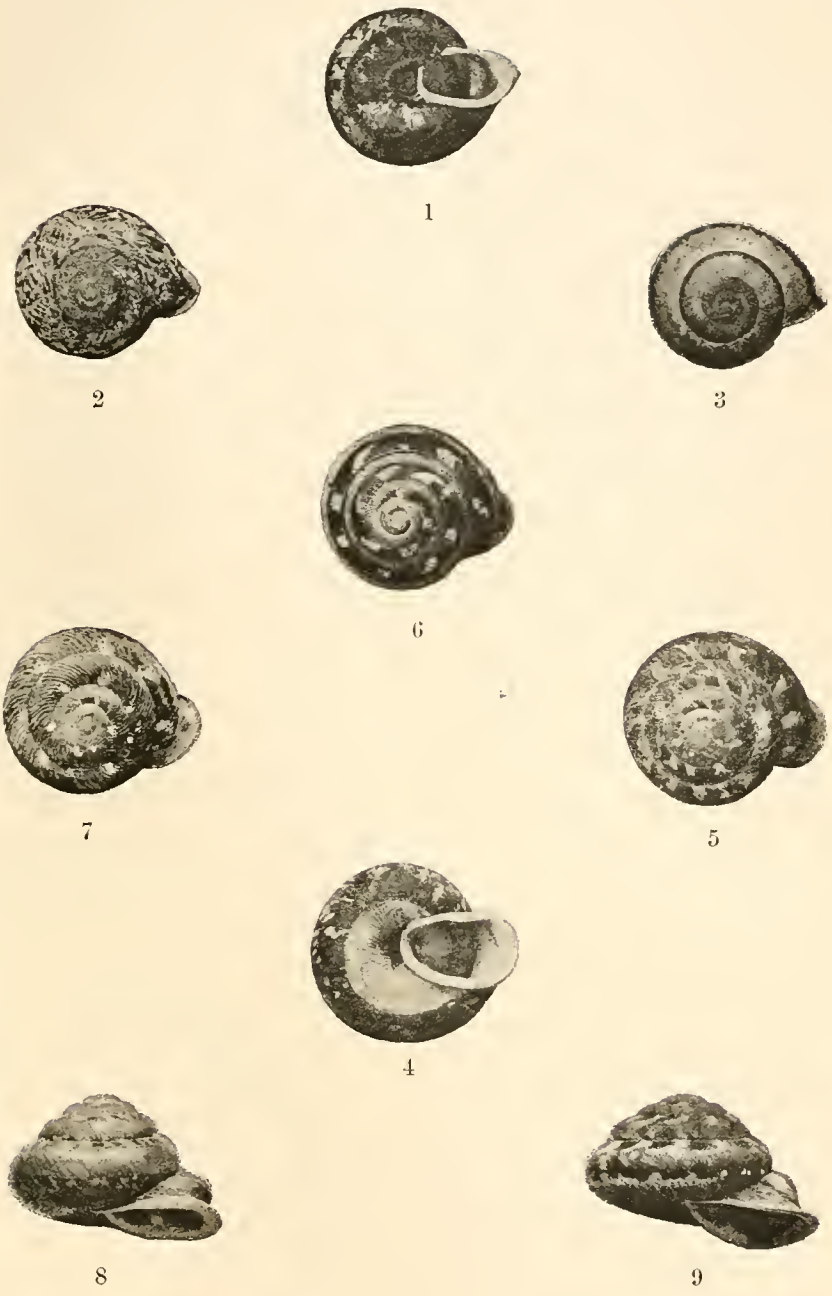
1, 2. Helix bigonia Ferussac.—3. Id. var.—4. H. horizontalis Pfeiffer.—5. Id. var.—6, 7. Id. var.—8, 9. H. Moricandi Sowerby.—10. Id. var.—11. Id. var.—12. H. basidentata Pfeiffer.



1, 2. Helix Livesayi Pfeiffer.—3, 4. Id. var.—5 á 7. H. marginata Müller.—8 á 10. H. rota Broderip.—11 y 12. Id. variedades.



1 á 3. Helix Bustoi Hidalgo.—4, 5. H. Saranganica Hidalgo.—6, 7. H. Bulacanensis Hidalgo.—8 á 10. H. parmula Broderip.



1, 2. Helix gallinula Pfeiffer.—3. Id. var.—4, 5. H. columbaria Sowerby.—6 á 9. Id variedades.

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1. Helix Philippinensis Semper.—2. H. palumba Souverbie, var. B.—3. H. monochroa Sowerby.—4. Id. var. Palawanica núm. 5.—5. Id. var. Palawanica, núm. 3.—6. H. Lagunæ Hidalgo.

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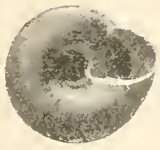

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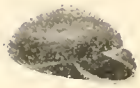

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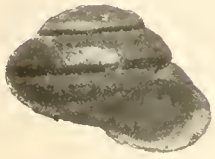

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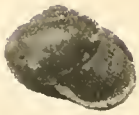

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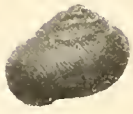

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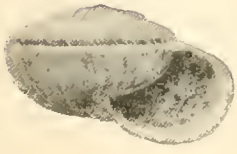

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1, 2. Helix Beckiana Pfeiffer.—3, 4. H. Kierulfi Mörch.—5. H. similaris Ferussac.—6. H. Sanziana Hombron et Jacquinot.—7. H. fodiens Pfeiffer.—8. Id. var.—9. H. spinosissima Semper.—10. H. Mulbatensis Hidalgo.—11. H. quieta Reeve.

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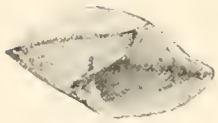

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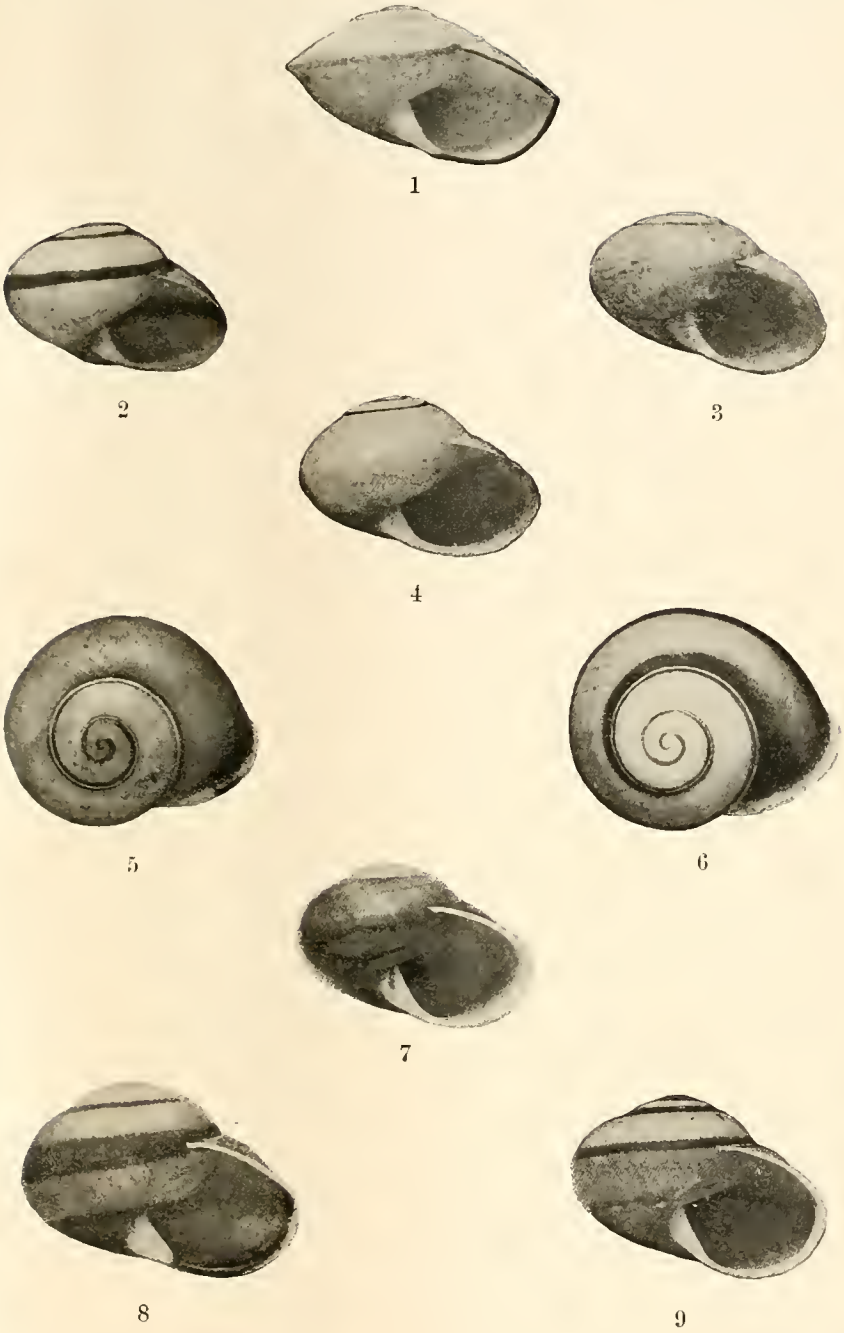
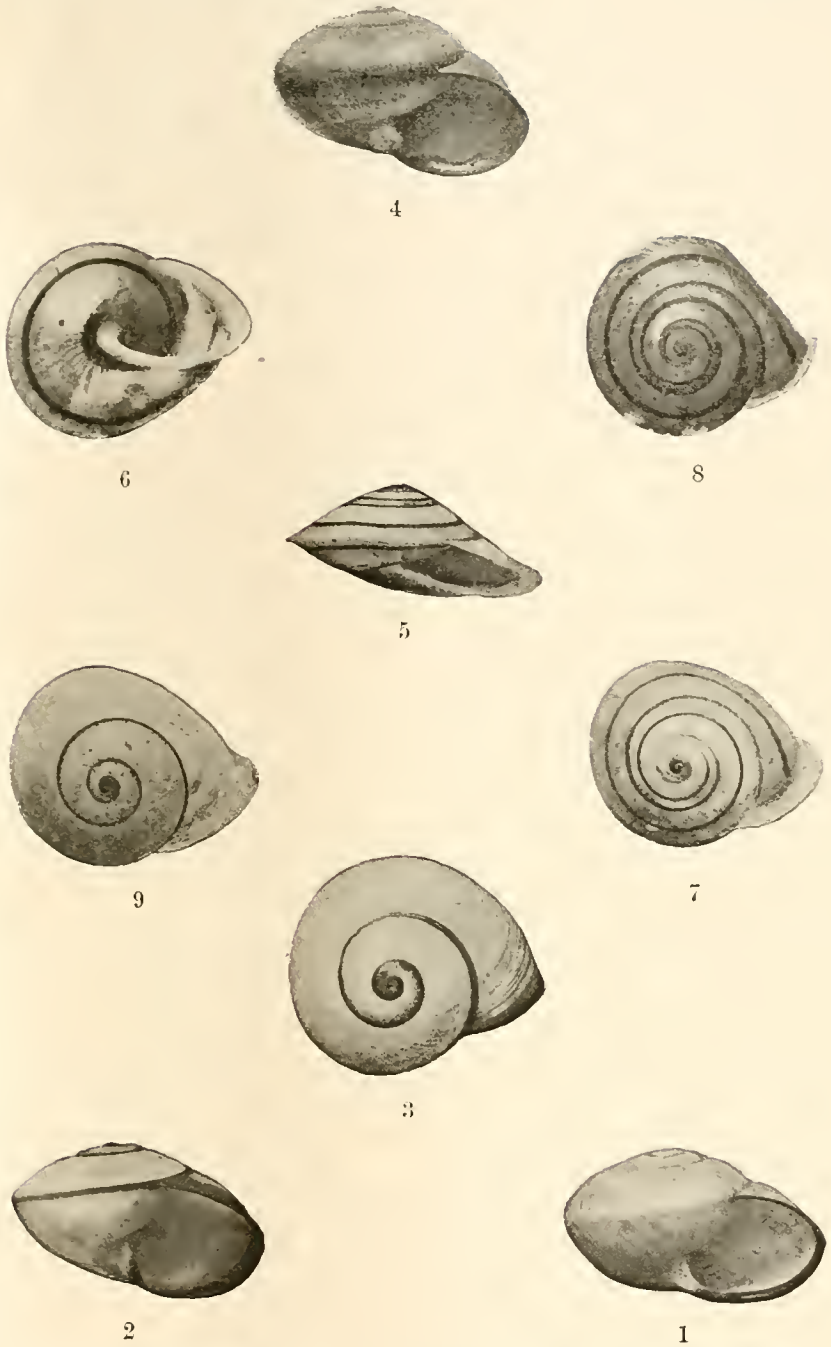
1, 2. Helix papyracea Broderip.—3. H. æruginosa Pfeiffer.—4. H. Puella Broderip.—5. H. Lais Pfeiffer.—6. H. patricia Pfeiffer.—7. H. Limansauensis Semper.—8. H. ægrota Reeve.



1. Helix Virgo Broderip.—2, 3. H. Zamboingæ Hombron et Jacquinot.—4. H. Eydouxi Hidalgo.—6 y 8. H. intorta Sowerby.—5, 7 y 9. Id. variedades.



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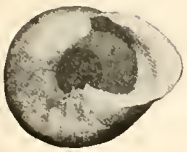
1. Helix filaris Valenciennes.—2 á 4. Id. variedades.—5 á 7. H. Thersites Broderip.—8, 9. Id. variedades.



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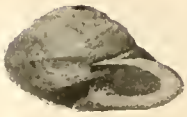

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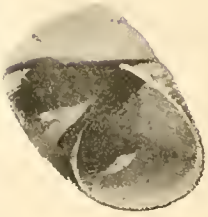

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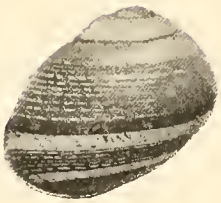

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1, 2. Helix paradoxa Pfeiffer.—3, 4. H. Reginæ Broderip.—5. H. brevidens Sowerby.—6. H. Batanica Adams et Reeve.—7. H. aurata Sowerby.—8, 9. H. fragilis Sowerby.

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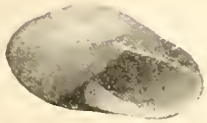

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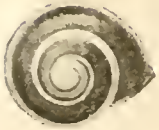

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1, 2. Helix Benguetensis Semper.—3. Id. variedad.—4, 5. H. fibula Broderip.—6 á 8. Id. variedades.—9. H. Irosinensis Hidalgo.—10. H. Hanleyi Pfeiffer. var. C.

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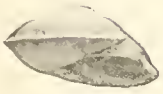

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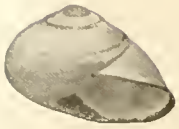

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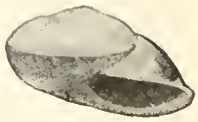

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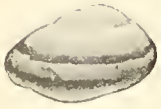

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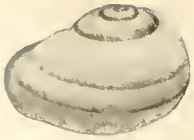

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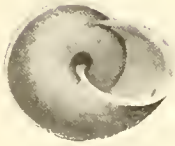

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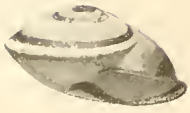

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1 á 3. Helix Hanleyi Pfeiffer.—4 á 8. H. Sirena Beck.—9 á 11. H. Sirena Beck. var.

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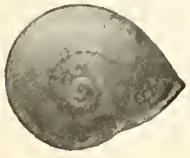

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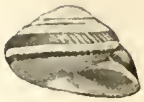

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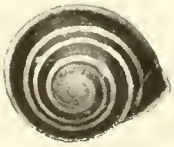

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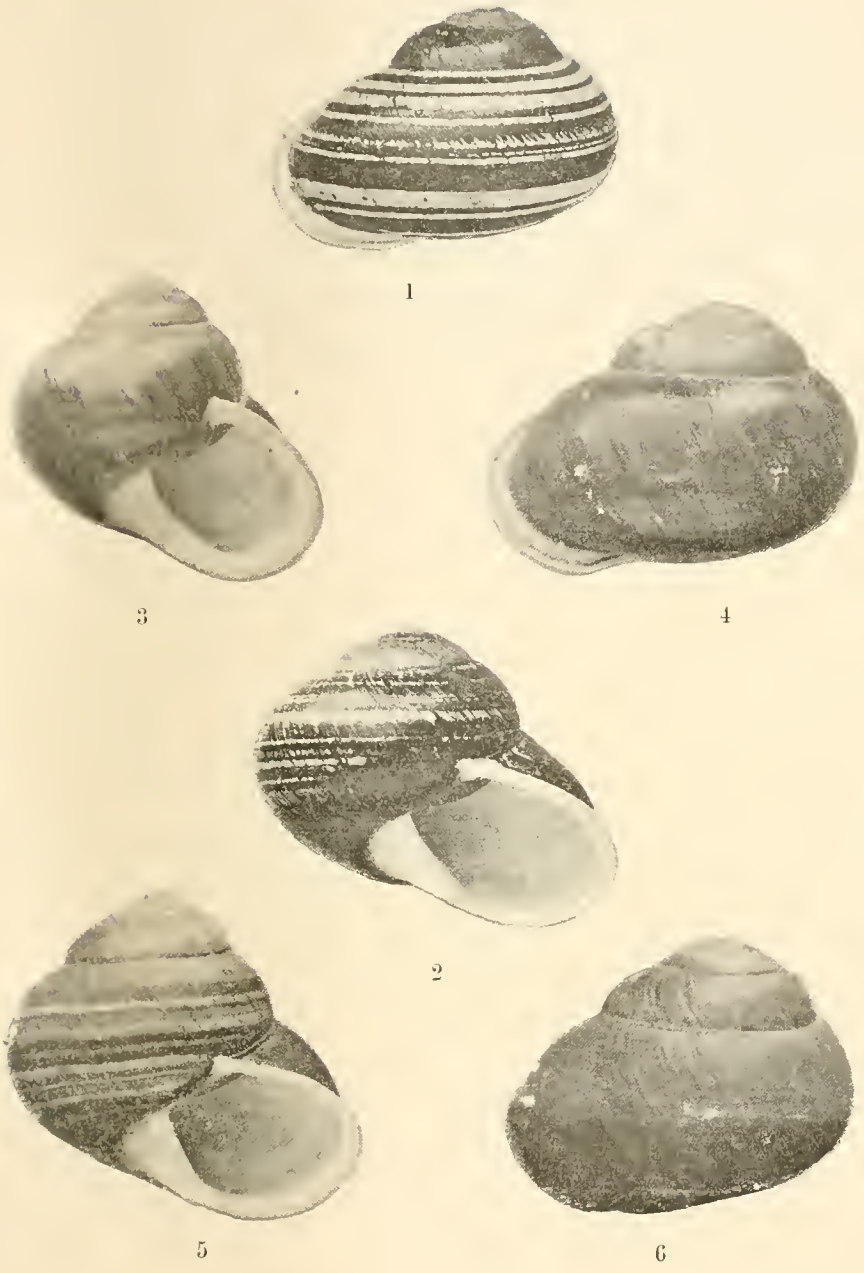
1, 2. Helix cærulea Möllendorff.—3, 4. H. Hennigiana Möllendorff.—5, 6. H. geotrochus Möllendorff.—7 á 10. H. Hugeli Pfeiffer.—11, 12. H. amœna Pfeiffer.

1, 2. Cochlostyla turbinoides Broderip.—3 á 6. C. speciosa Jay.

1. Cochlostyla turbinoides Broderip. — 2 á 6. C. festiva Donovan, variedades.



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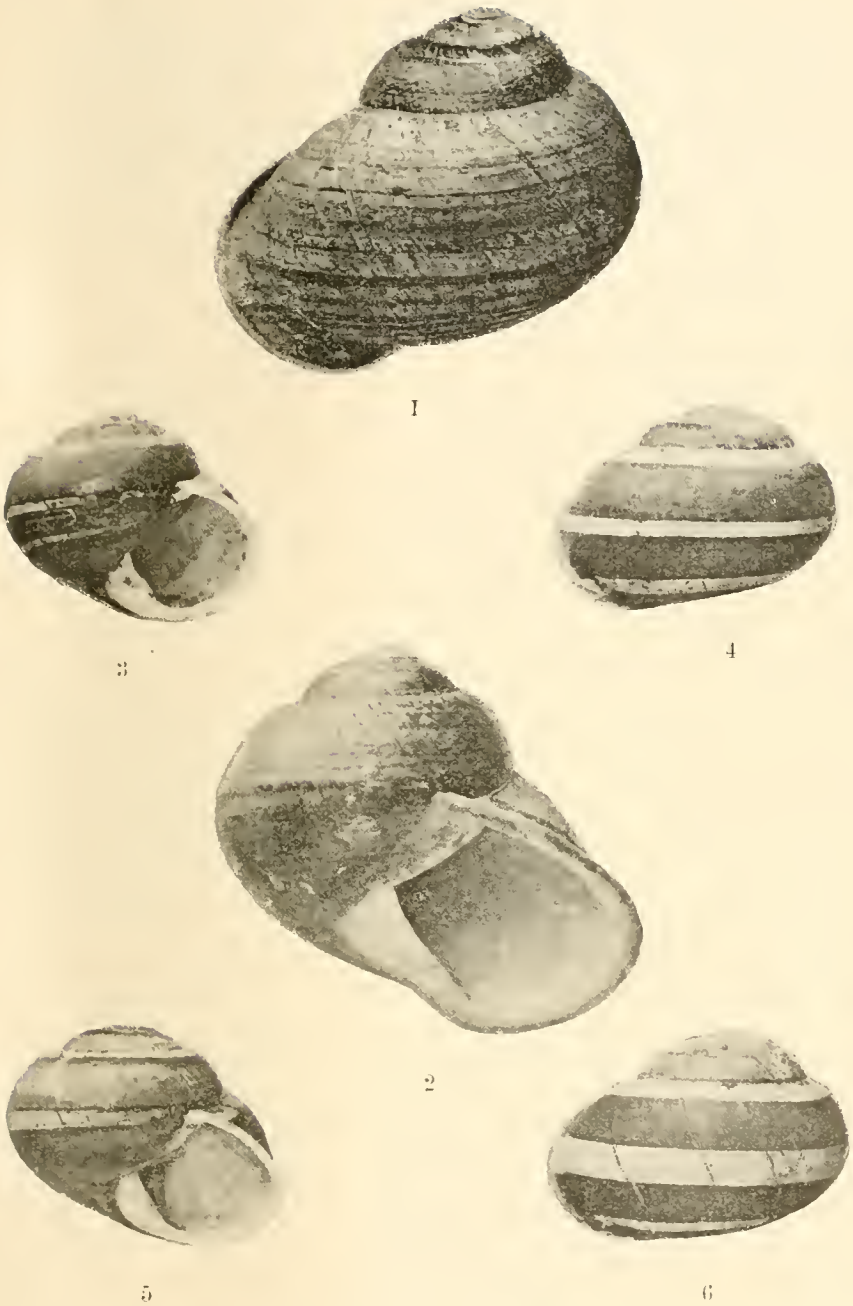
1, 2. Cochlostyla Norrisi Sowerby.—3, 4. C. chrysocheila Sowerby.—5, 6. C. Pan Broderip.



1, 2. Cochlostyla cretata Broderip. — 3 á 6. C. depressa Semper, variedades.

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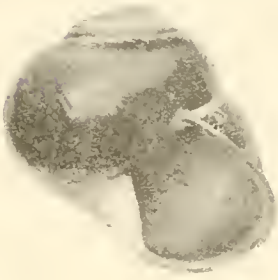

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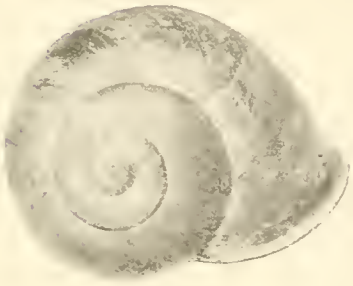

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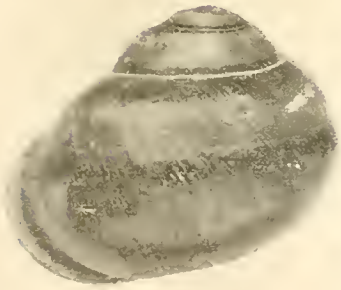

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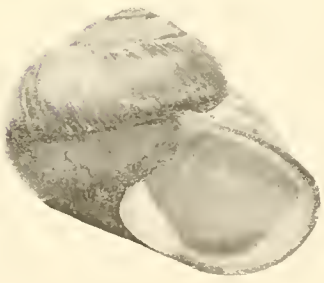

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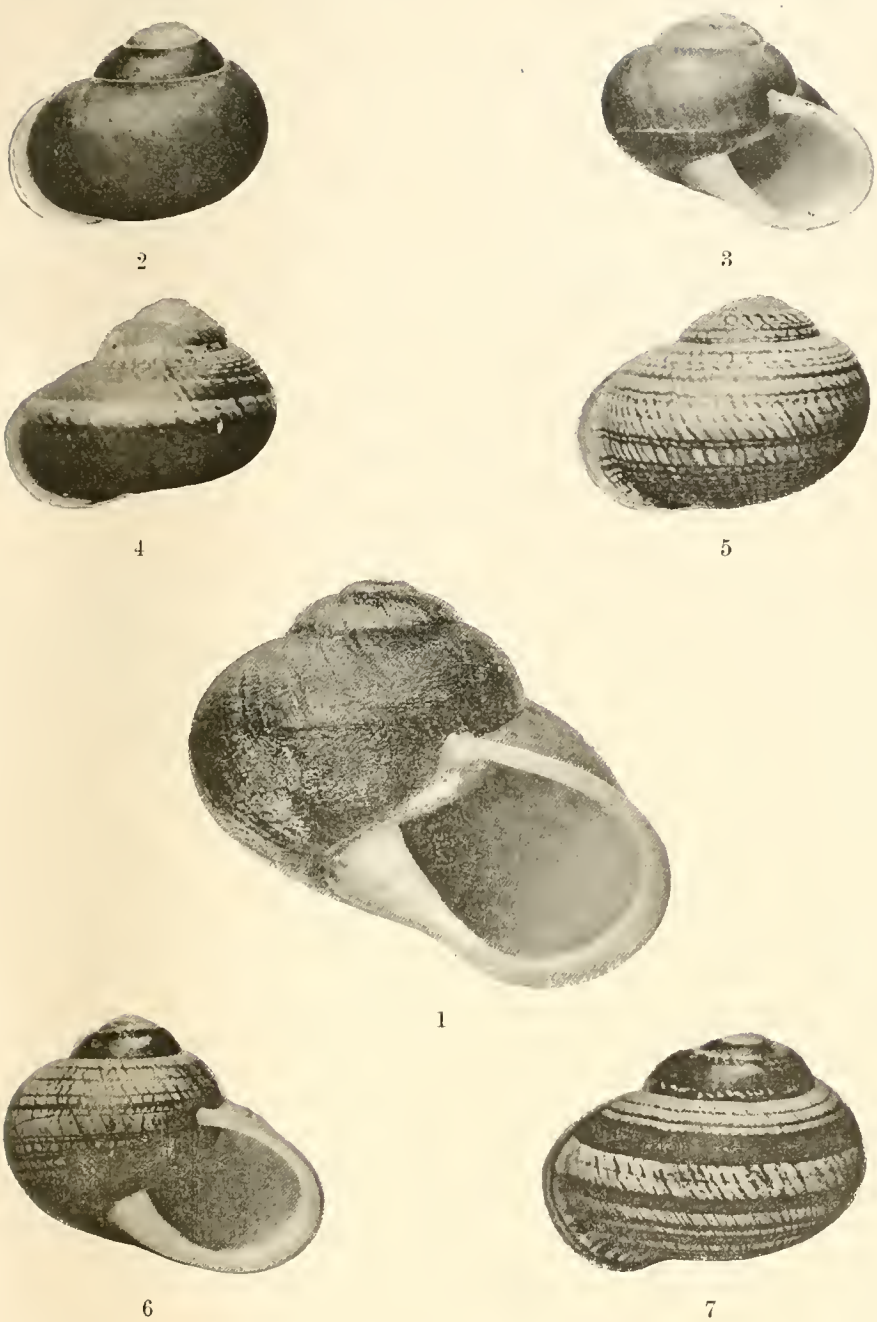
1 á 8. Cochlostyla coccomelos Sowerby, variedades.



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1. Cochlostyla cryptica Broderip.—2 á 7. C. pulcherrima Sowerby, variedades.

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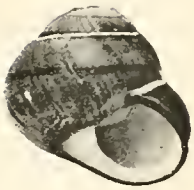

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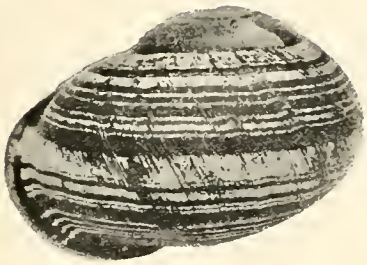

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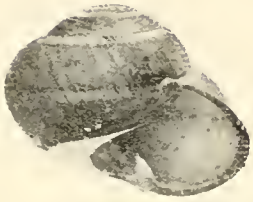

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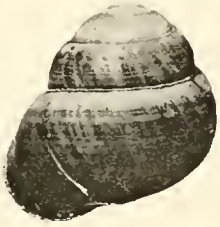

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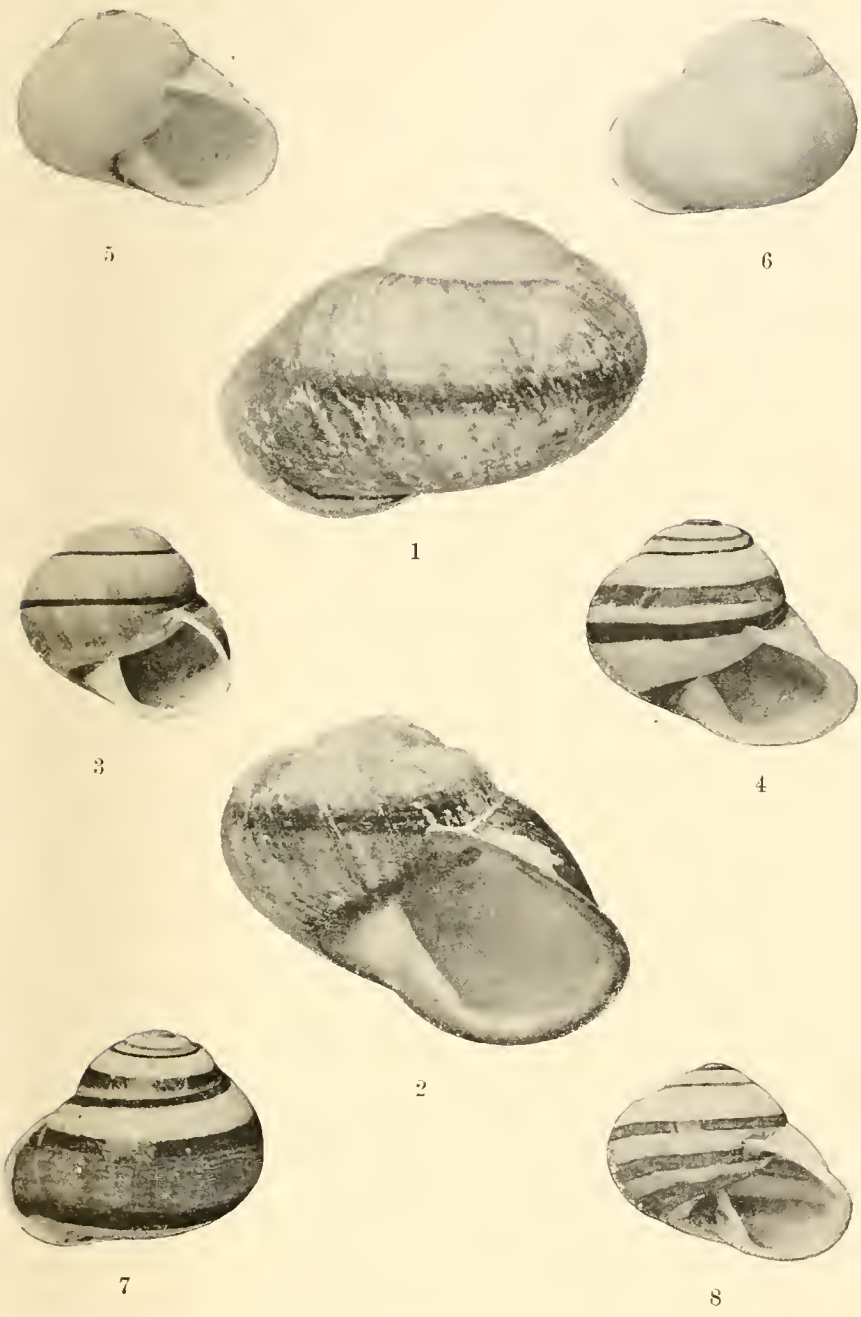
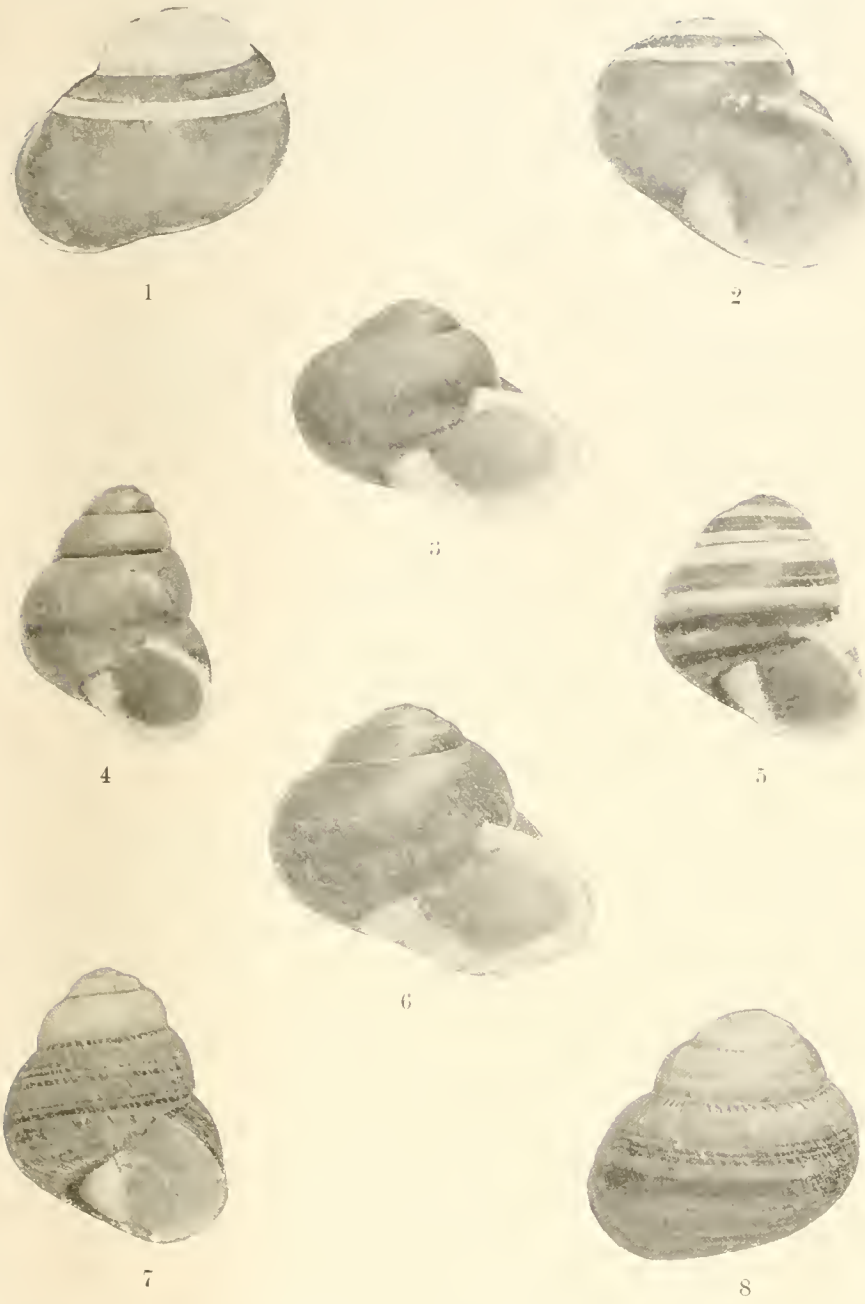
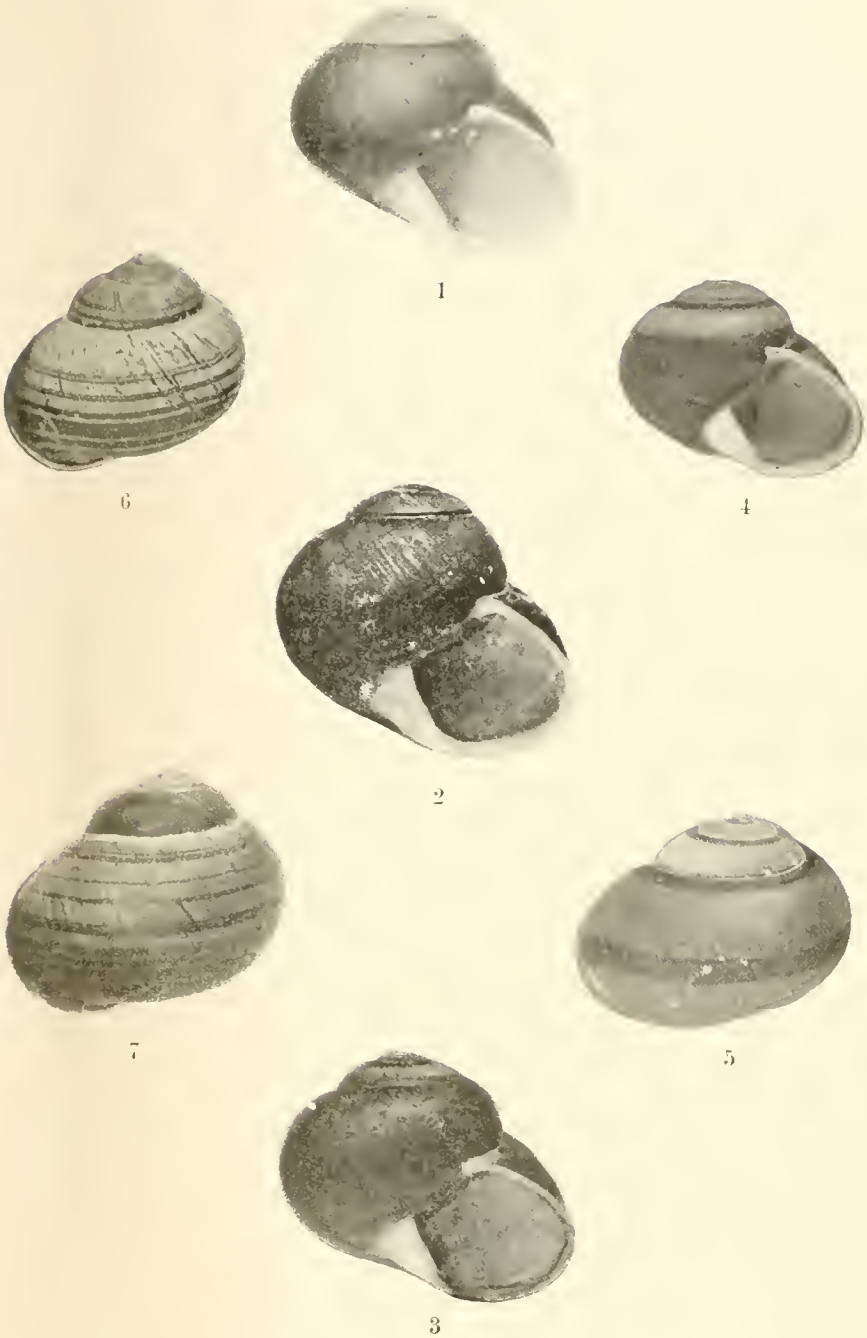
1, 2. Cochlostyla Hidalgoi Möllendorff.—3, 4. C. sphærica Sowerby.—5. C. indusiata Pfeiffer. var.—6. C. matruelis Sowerby.—7, 8. C. libata Reeve.



1, 2.—Cochlostyla latitans Broderip.—3. C. Roissyana Ferussac, variedad.— 5 á 8. C. Albaiensis Sowerby, variedades.



1, 2. Cochlostyla paraleuca Pilsbry.—3. C. pulcherrima Sowerby. var.—4. C. metaformis Ferussac. var.—5. C. fulgens Sowerby. var.—6. C. chrysocheila Sowerby. var.—7, 8. C. Butleri Pfeiffer.



1 á 5. Cochlostyla sphærion Sowerby. variedades.—6, 7. C. Princeps Reeve. var.

1, 2. Cochlostyla Coronadoi Hidalgo.—3. C. Circe Pfeiffer.—4, 5. C. tenera Sowerby. var.
6, 7. C. orbitula Sowerby.

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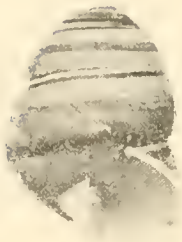

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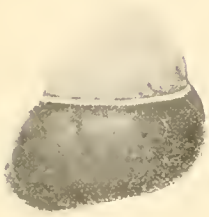

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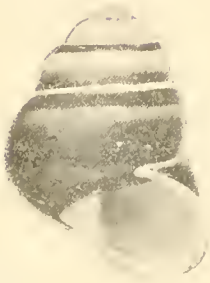

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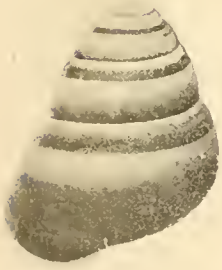

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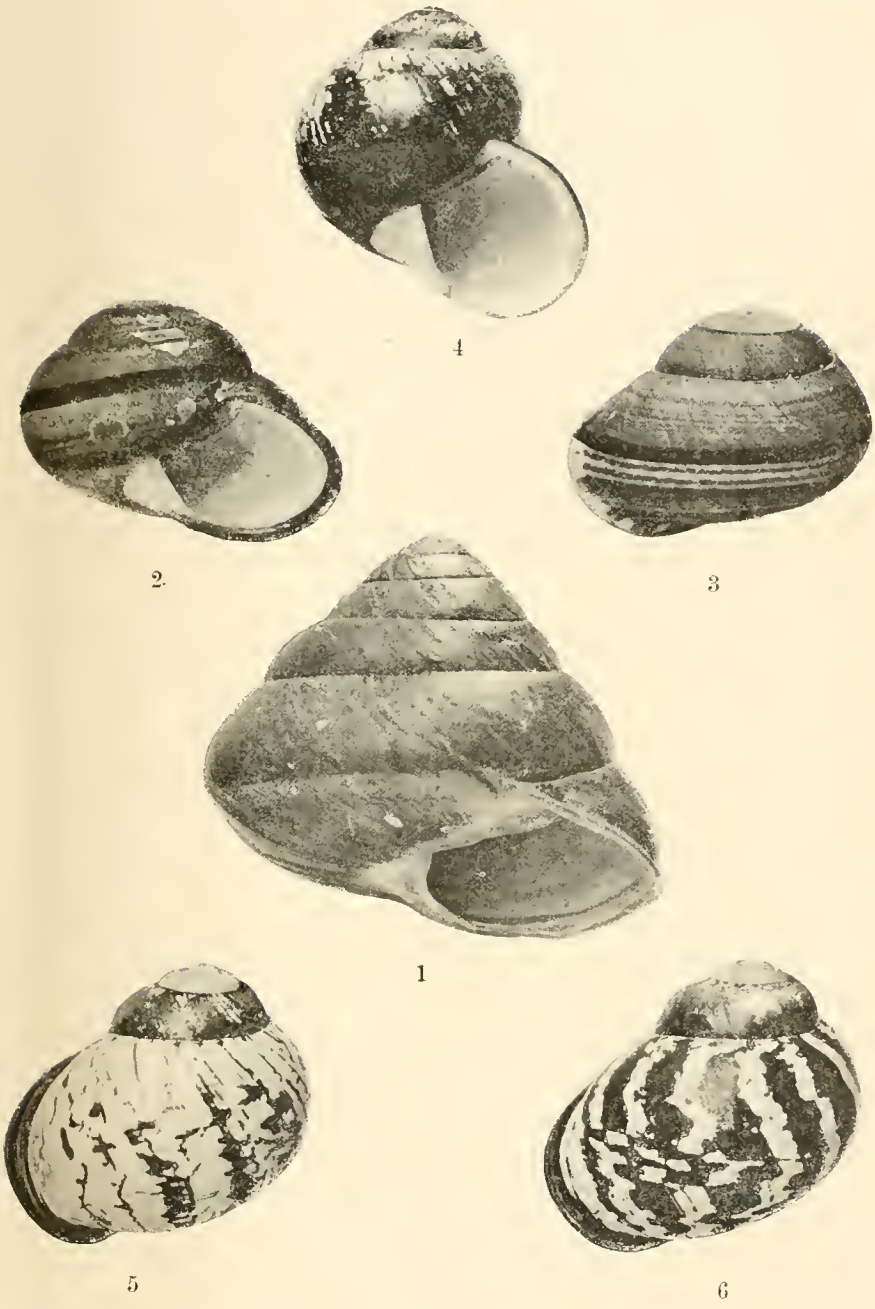
1. Cochlostyla Villari Hidalgo. — 2 á 8. C. florida Sowerby.



1. Cochlostyla Carolus Deshayes.—2, 3. C. melanocheila Valenciennes.—4 á 6. C. Codonensis Hidalgo.

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1, 2. Cochlostyla lignicolor Möllendorff.—3. C. grandis Pfeiffer.—4. C. macrostoma Pfeiffer.—5. C. Ticaonica Broderip.

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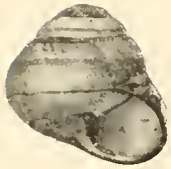

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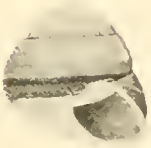

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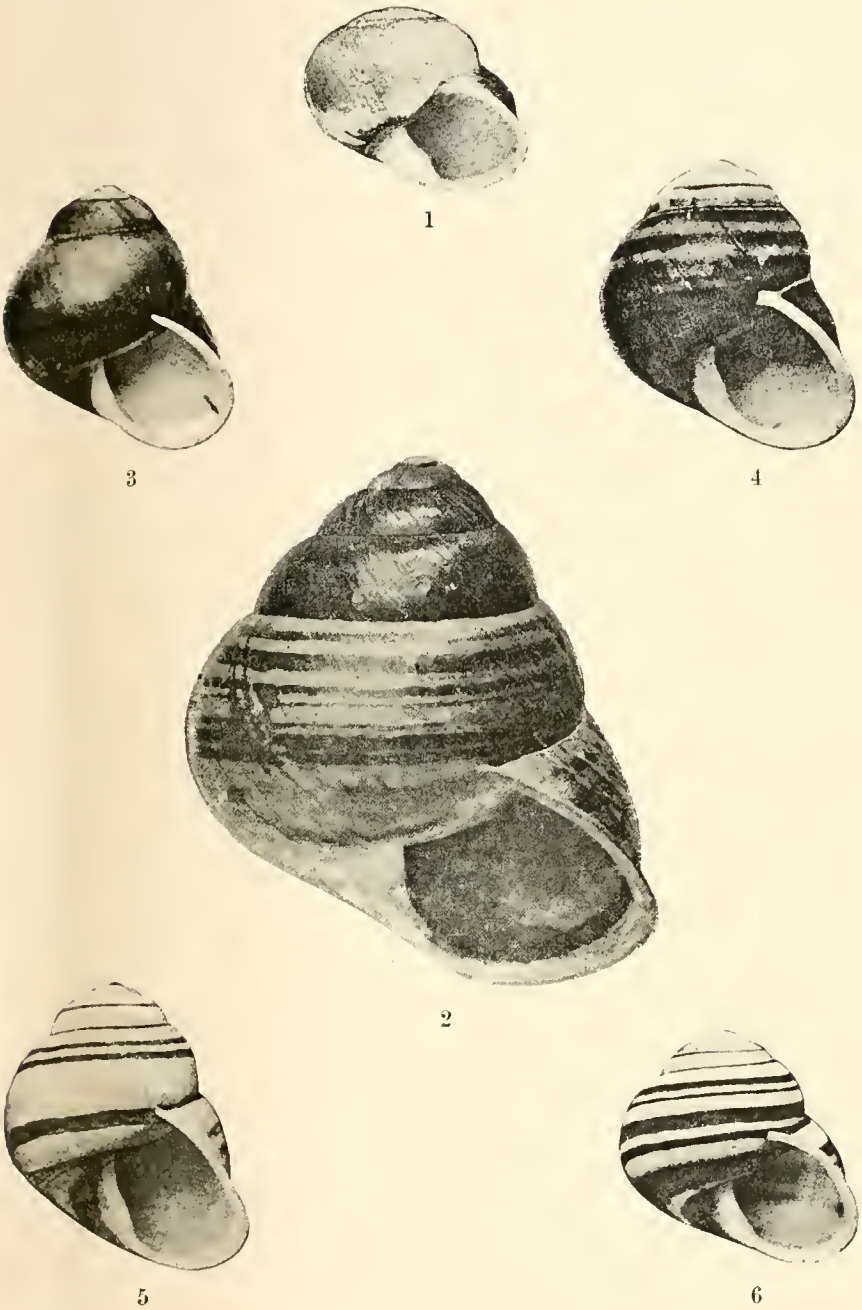
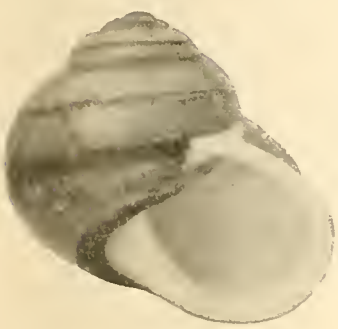
1 á 3.—Cochlostyla monticula Sowerby.—4 á 8. C. annulata Sowerby.
9 á 11. C. balteata Sowerby.



1. Cochlostyla sphærion Sowerby. var.— 2. C. grandis Pfeiffer.— 3 á 6. C. mirabilis Ferussac. variedades.



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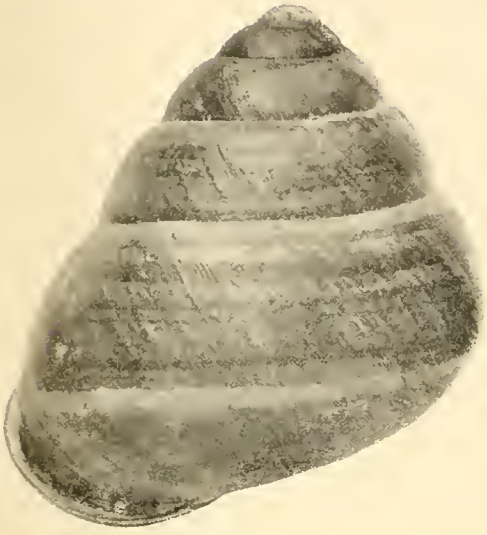

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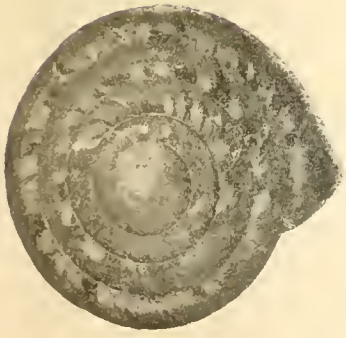

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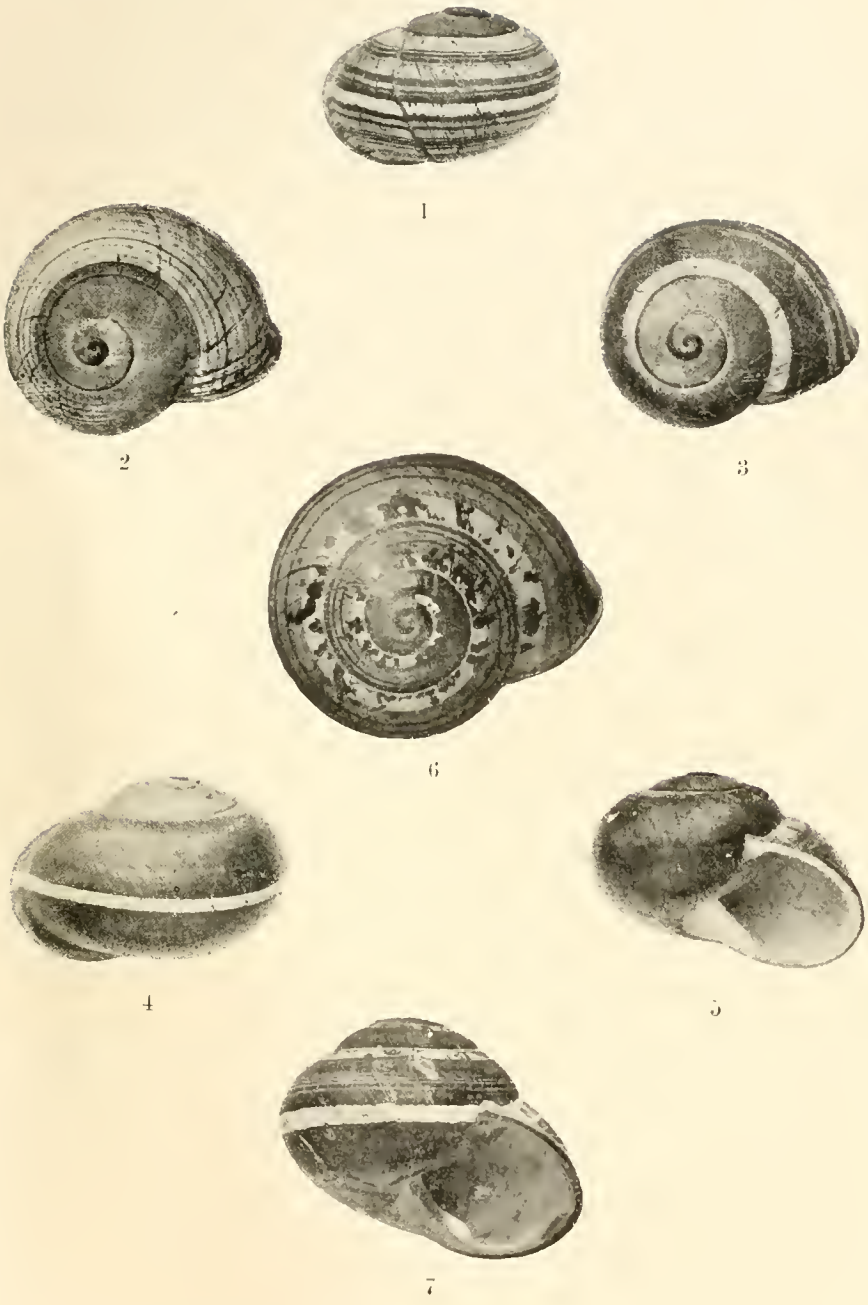
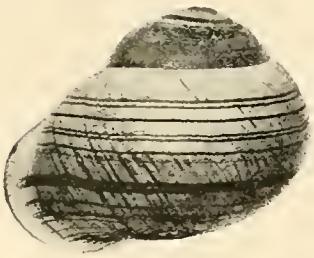
1. Cochlostyla grandis Pfeiffer.—2. C. Cailliaudi Deshayes. var.—3 á 5. C. cepoides Lea.



1 á 5. Cochlostyla Valenciennesi Eydoux.—6, 7. C. depressa Semper.

1, 2. Cochlostyla turgens Deshayes.—3 á 5. C. zonifera Sowerby.—6. C. Polillensis Pfeiffer.



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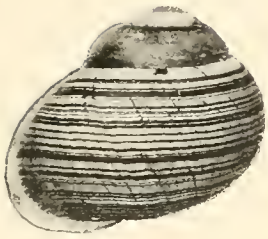

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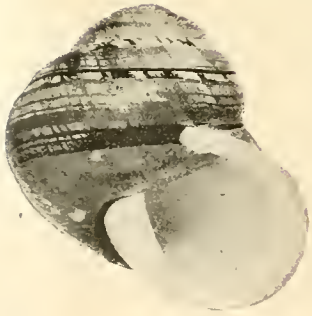

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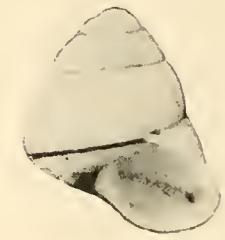
1. Cochlostyla sarcinosa Ferussac. — 2 á 5. C. dubiosa Pfeiffer.



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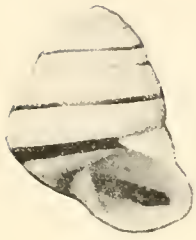

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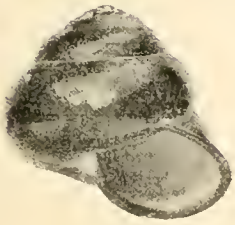

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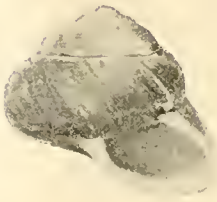

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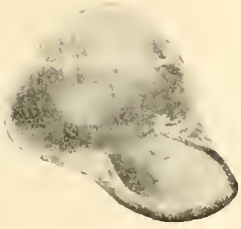

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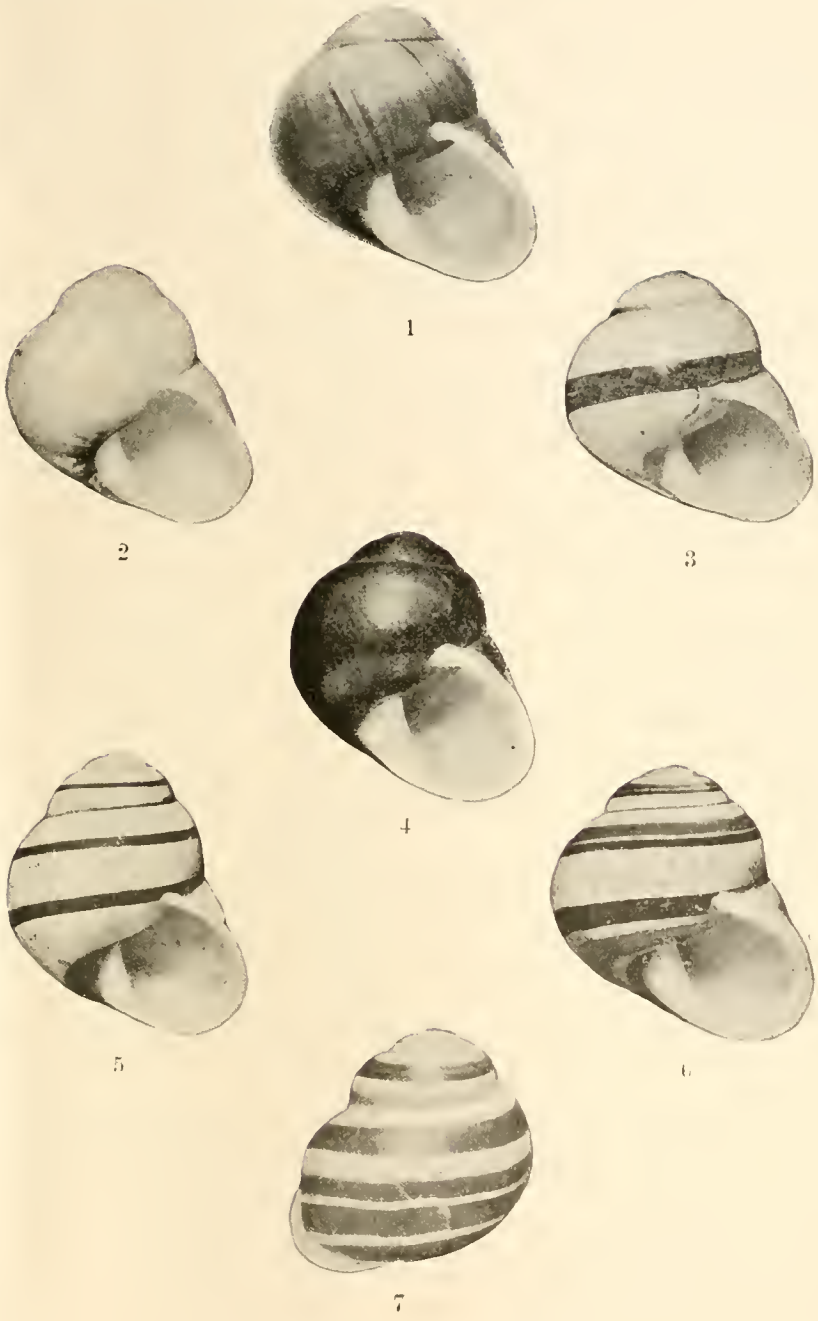
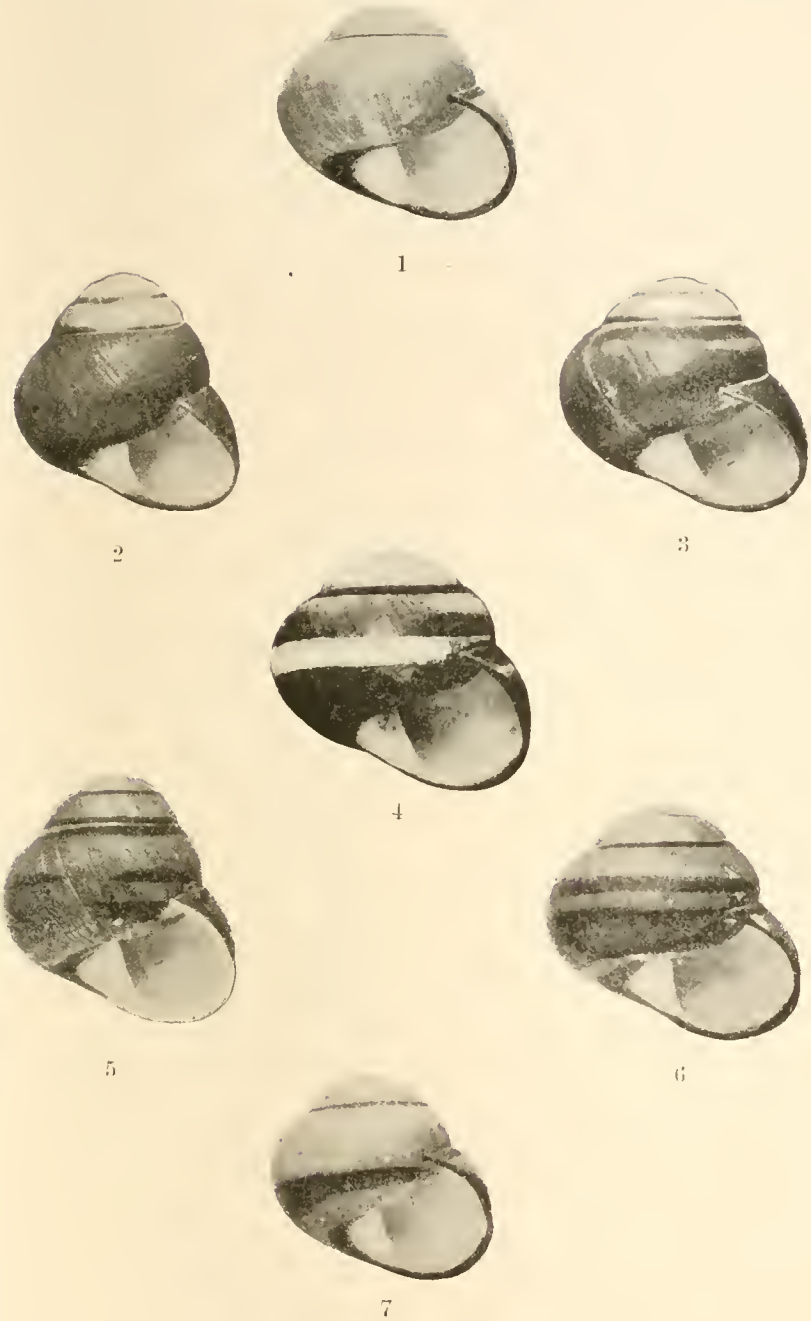
1 á 3 Cochlostyla ignobilis Sowerby.—4. C. amicta Reeve.—5, 6. C. collodes Sowerby.—7, 8. C. dimera Jonas.

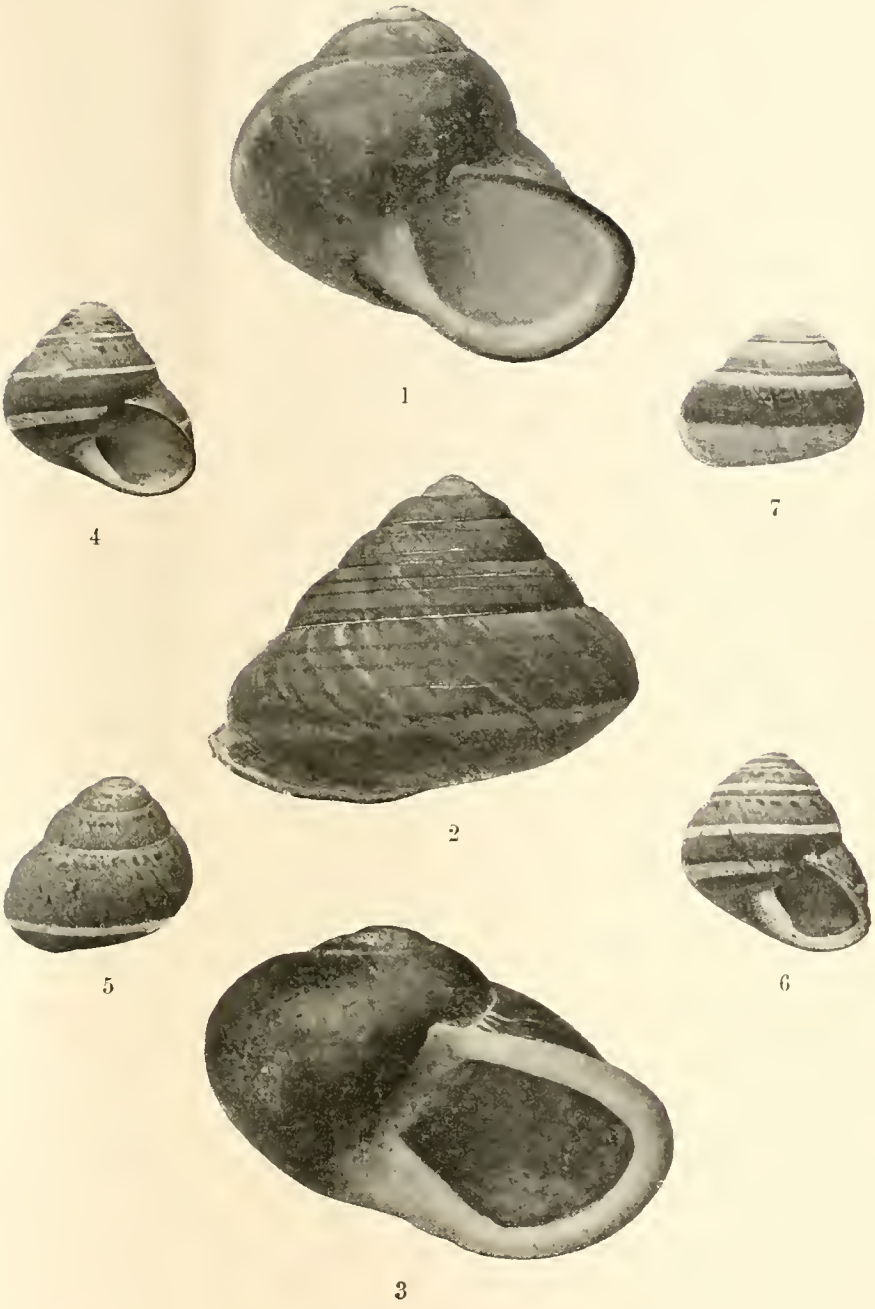


1 á 7. Cochlostyla mirabilis Ferussac.

1, 2. Cochlostyla tenera Sowerby.—3. C. Roissyana Ferussac, var.—4, 5. C. fulgens Sowerby.—6. C. Boettgeriana Möllendorff.—7, 8. C. mirabilis Ferussac, var.



1 á 7. Cochlostyla Roissyana Ferussac.



1. Cochlostyla Roebeleni Möllendorff.—2. C. Carolus Deshayes.—3. C. latitans Broderip.
4, 5, 6. C. fuliginata Martens.—7. C. balteata Sowerby. var.

1, 2. Cochlostyla Portei Pfeiffer, variedades.—3. C. tenera Sowerby.—4 á 6. C. effusa Pfeiffer.

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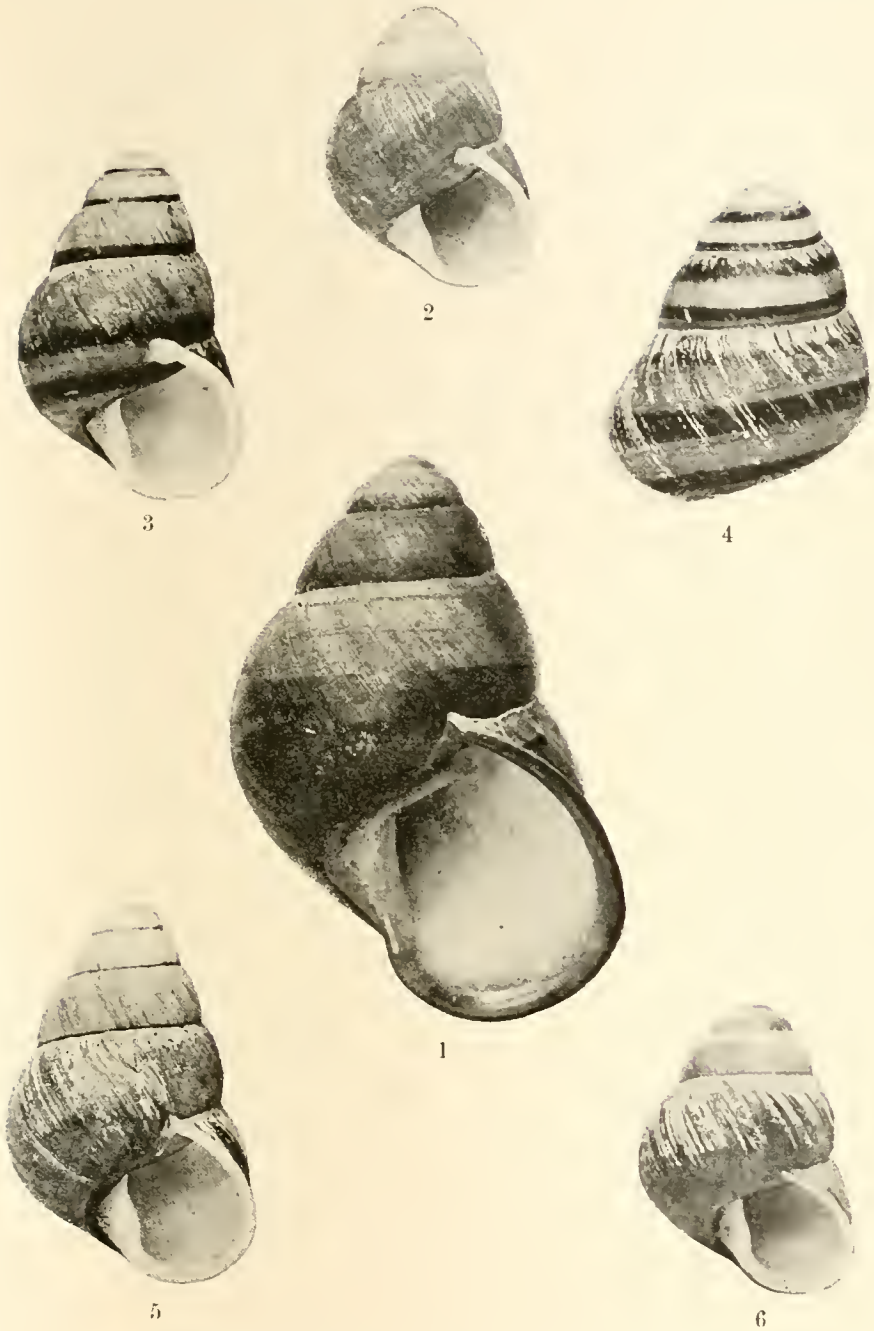
1. Cochlostyla Portei Pfeiffer, var.—2, 3. C. librosa Pfeiffer.—4, 5. C. smaragdina Reeve, variedades.



1. Cochlostyla Woodiana Lea.—2 á 6. C. metaformis Ferussac.

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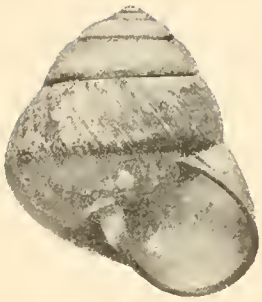

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1. Cochlostyla bembicodes Pfeiffer.—2. C. cinerascens Pfeiffer.—3. C. Woodiana Lea.—4, 5. C. Solai Hidalgo.

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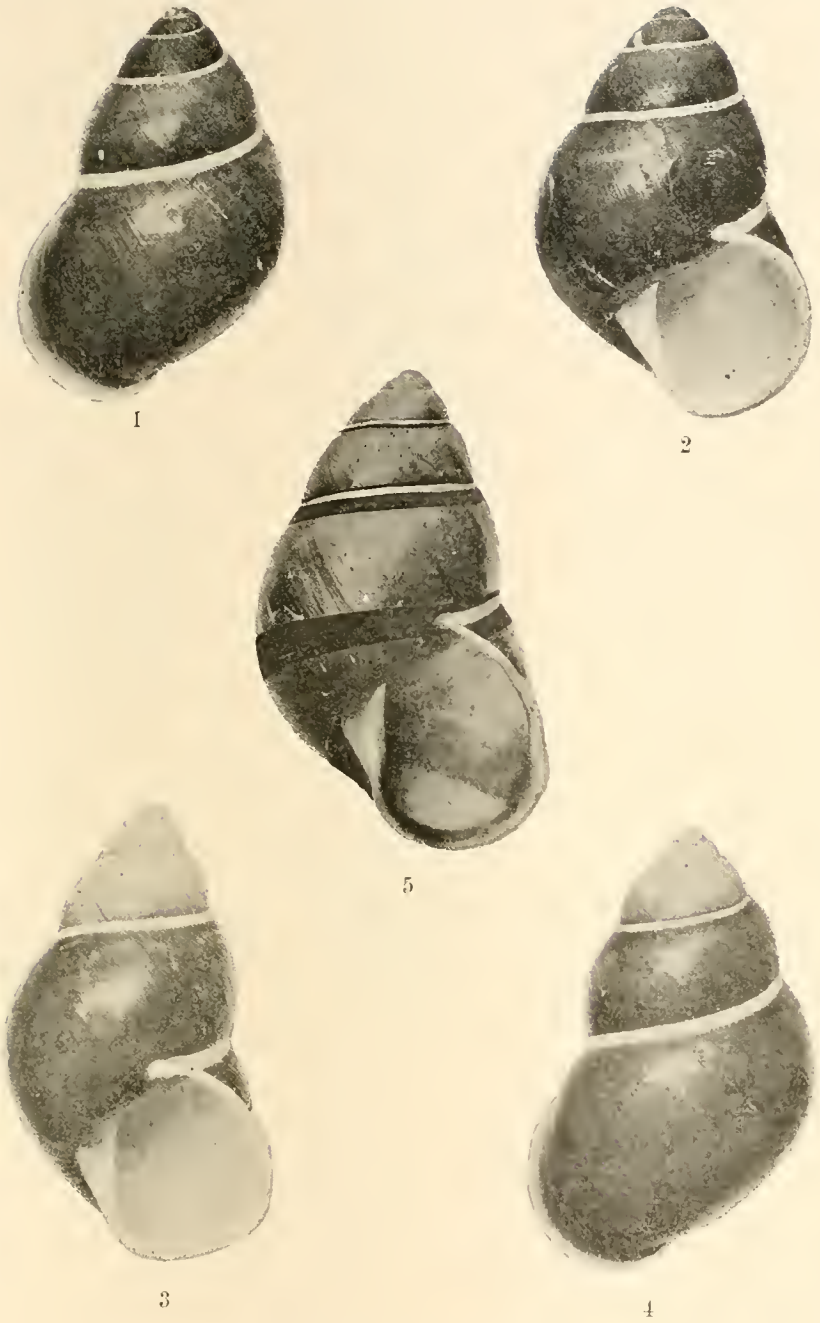
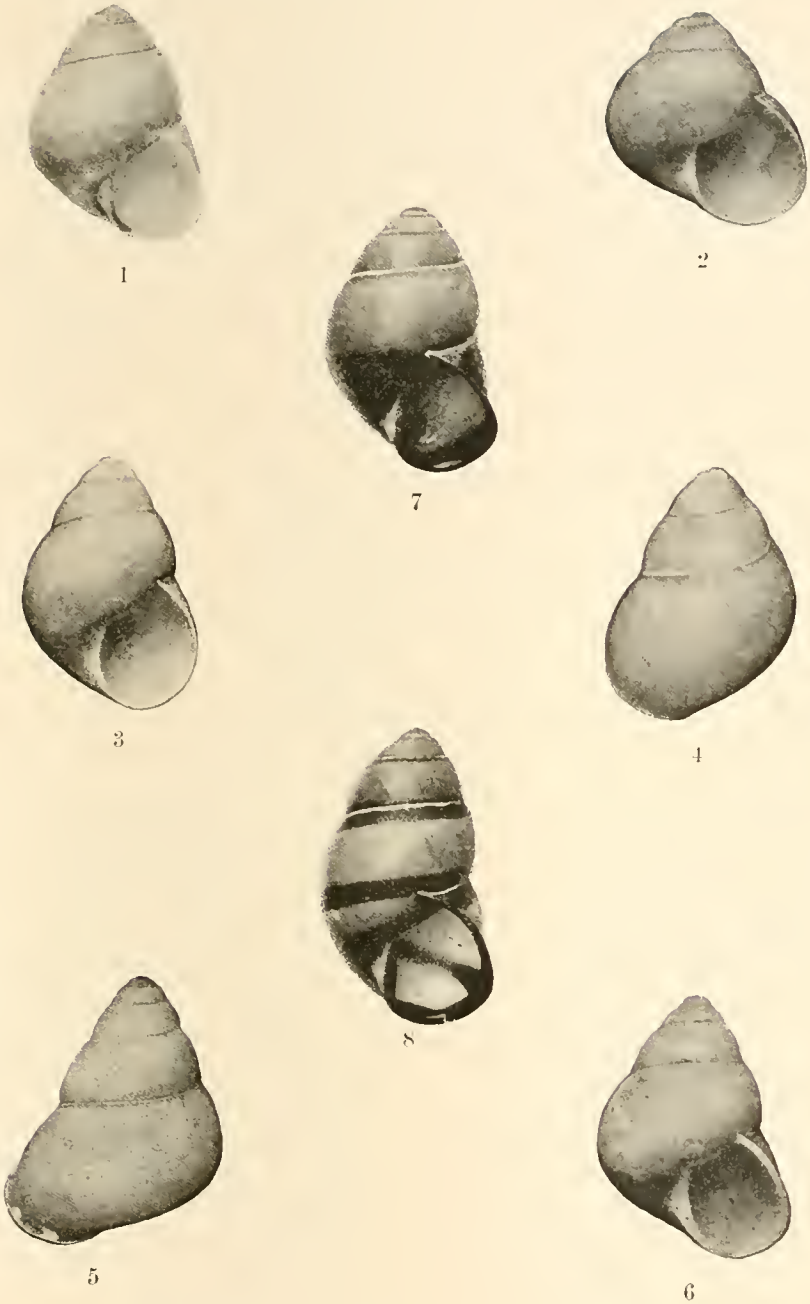
1, 2. Cochlostyla concinna Sowerby.—3, 4. C. leucophæa Sowerby.—5, 6. C. curta Sowerby.—7, 8. Id. variedad.



1 á 5. Cochlostyla smaragdina Reeve.

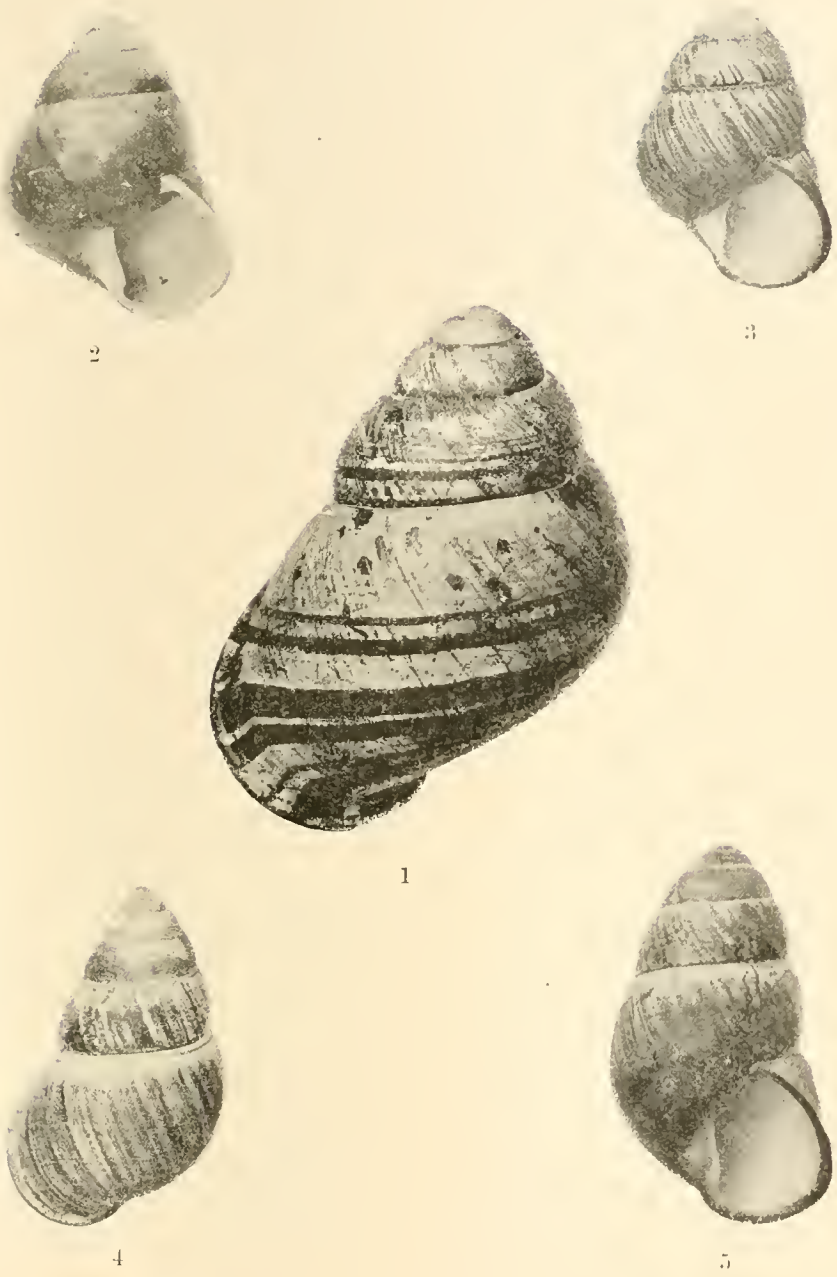


1. Cochlostyla Cumingi Pfeiffer.—2. C. bullula Broderip.—3, 4. Id. var. virginea Lea.—5, 6. C. Bustoi Hidalgo.—7, 8. C. phæostyla Pfeiffer.

1 á 4. Cochlostyla Daphnis Broderip.—5. C. Vidali Hidalgo.

1 á 5. Cochlostyla rufogaster Lesson.

1, 2. Cochlostyla gilva Sowerby.—3. C. Portei Pfeiffer.—4, 5. C. Faunus Broderip.



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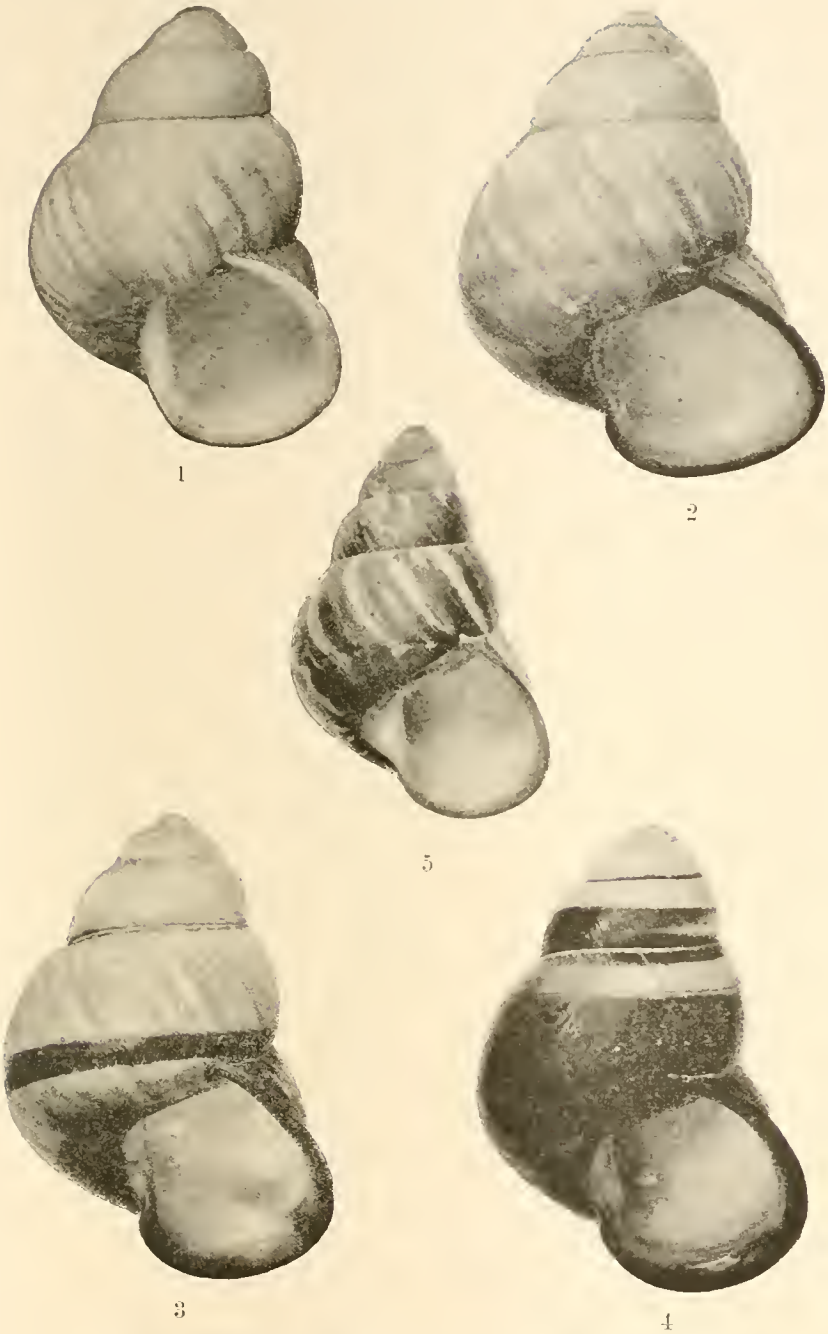
1. Cochlostyla Portei Pfeiffer.—2. C. Cæsar Pfeiffer.—3, 4. C. Graellsi Hidalgo.—5. C. Satyrus Broderip.



1 á 4. Cochlostyla Marinduquensis Hidalgo.—5. C. imperator Pfeiffer.

1. Cochlostyla imperator Pfeiffer.—2 y 3. C. Alberti Broderip.—4 y 5. Id. var. onyx Broderip.

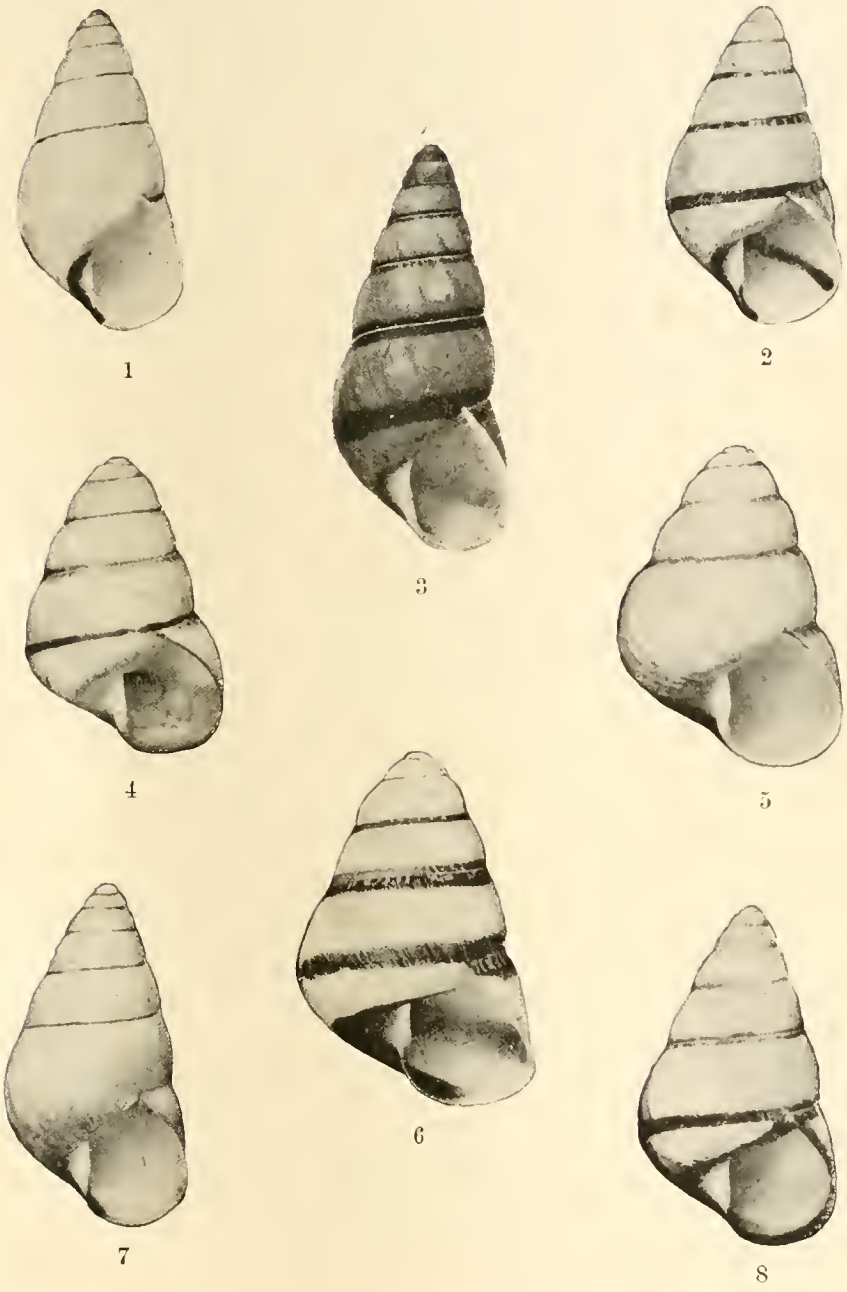
1 á 4. Cochlostyla Ticaonica Broderip.—5 y 6. C. Crosseana Hidalgo.

1 á 4. Cochlostyla pithogaster Ferussac.—5. Id. var. Philippinensis Pfeiffer.

1. Cochlostyla macrostoma Pfeiffer.—2, 3. C. lacera Pfeiffer.—4, 5. C. turbo Pfeiffer.

1. Cochlostyla macrostoma Pfeiffer.—2, 3. C. juglans Pfeiffer.—4, 5. C. lignaria Pfeiffer.

1. Cochlostyla Ticaonica Broderip.—2. C. imperator Pfeiffer.—3. C. Daphnis Broderip.—4, 5. C. Alberti Broderip.



1 á 3. Cochlostyla Romblonensis Pfeiffer.—4 á 6. C. cincinniformis Sowerby.—7, 8. C. succincta Reeve.

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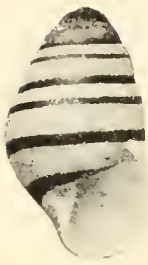

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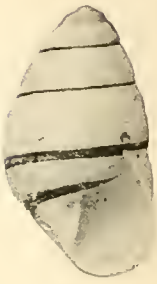

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1 á 9. Cochlostyla ovoidea Bruguiere, variedades.

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1. Cochlostyla modesta Sowerby.—2. C. simplex Jonas.—3, 4. C. Bruguieriana Pfeiffer.—5 á 7. C. ovoidea Bruguiere, variedades.—8, 9. C. stabilis Sowerby.

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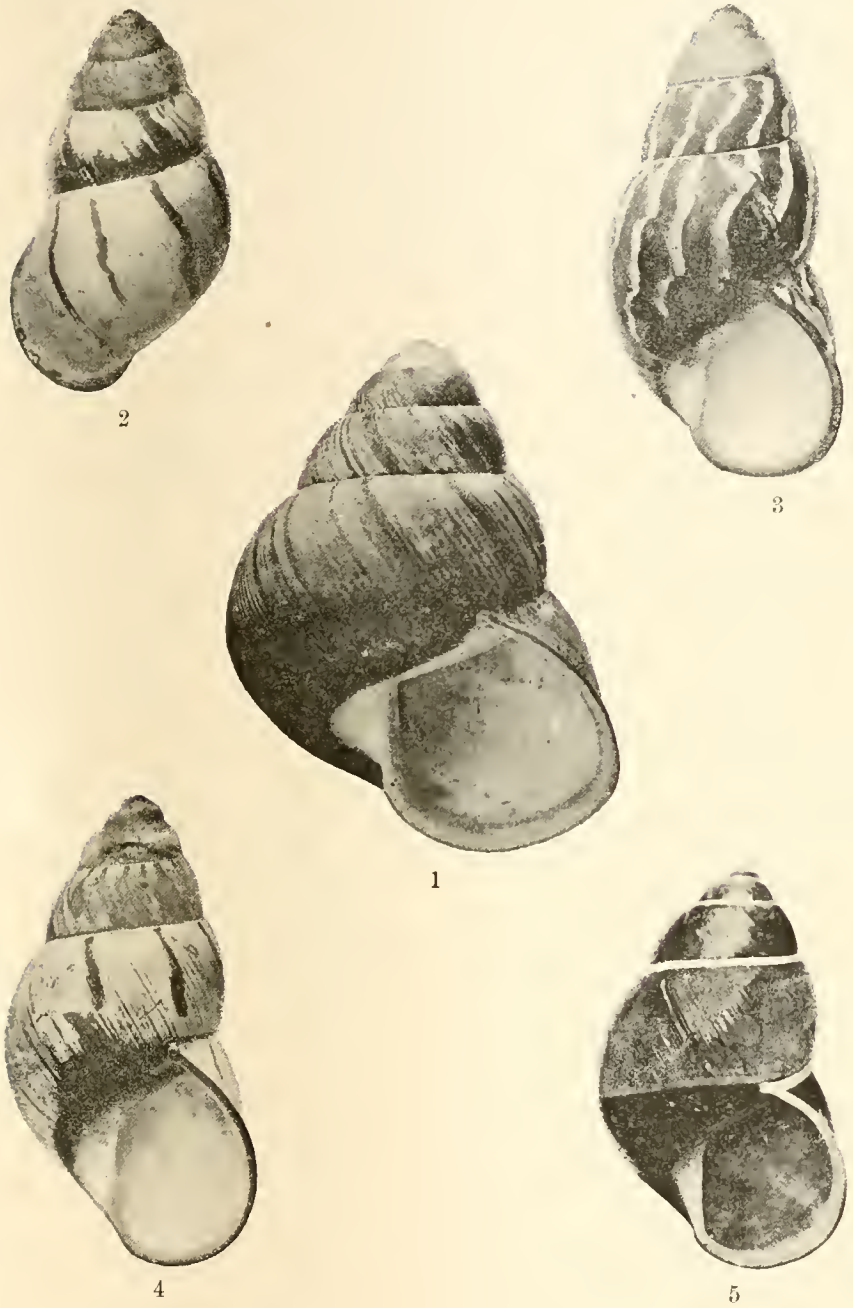
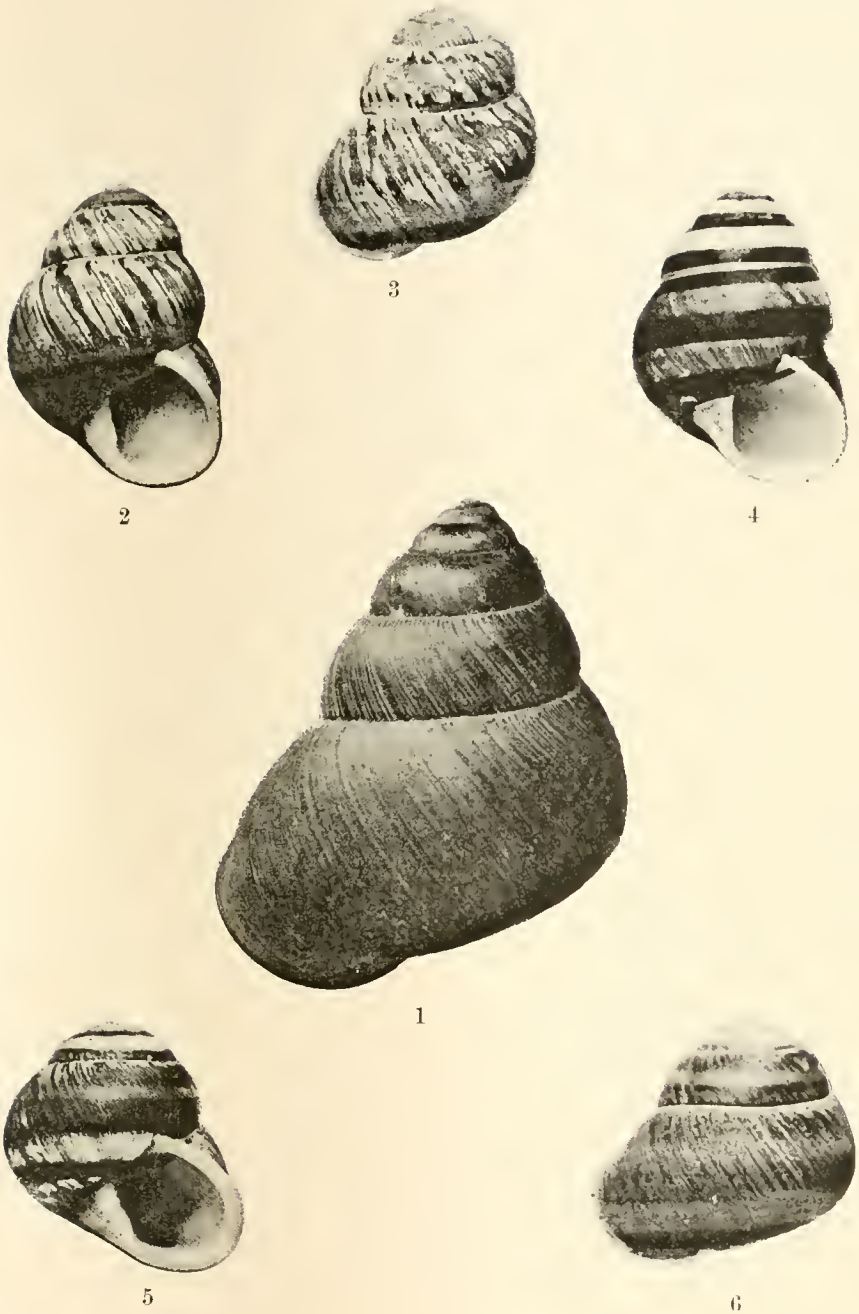
1, 2. Cochlostyla Calista Broderip.—3, 4. C. camelopardalis Broderip.—5, 6. C. connectens Möllendorff.—7, 8. C. Boholensis Broderip.

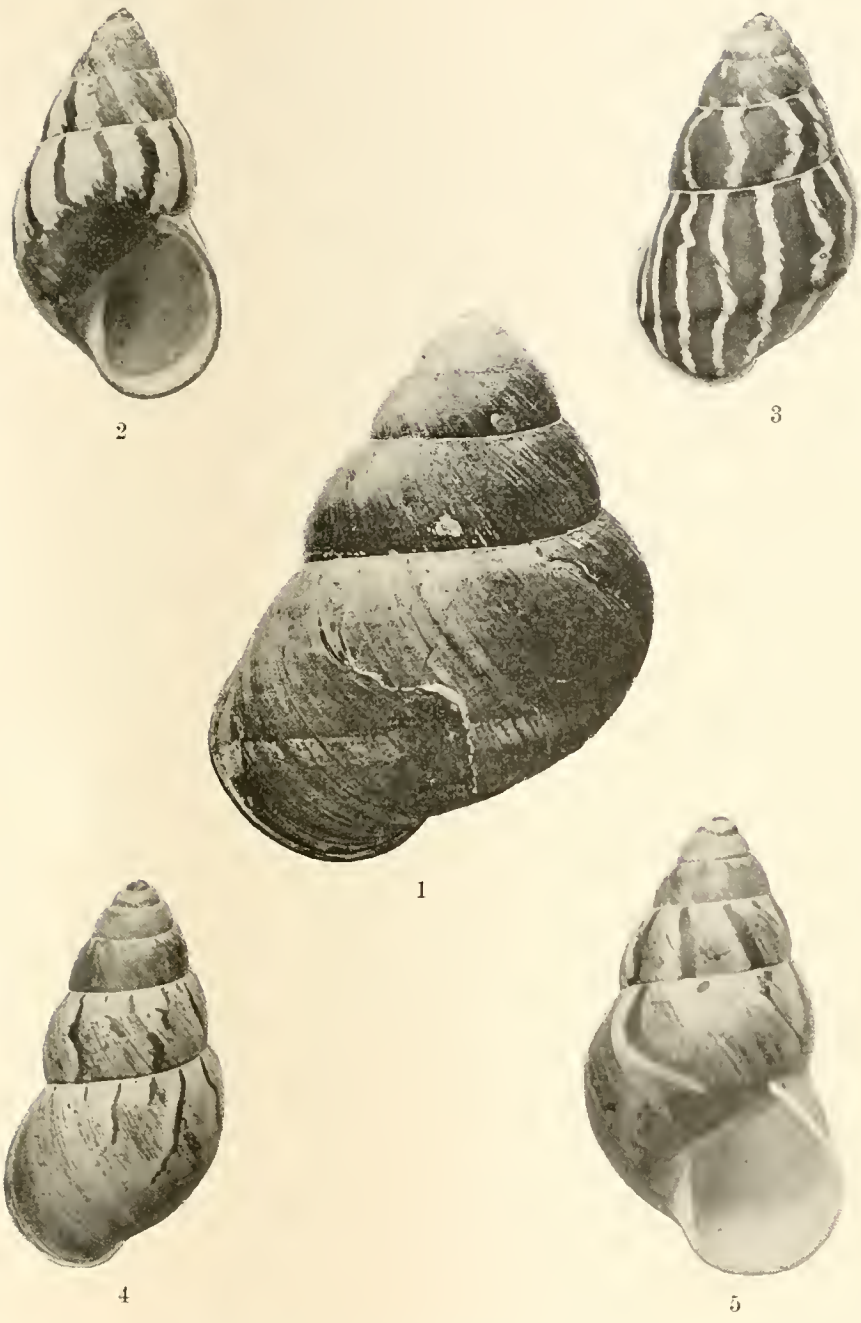
1 á 3. Cochlostyla Nympha Pfeiffer.—4. C. dactylus Broderip.—5, 6. C. carinata Lea.



1. Cochlostyla Philippinensis Reeve.—2 á 4. C. pictor Broderip.—5. C. smaragdina Reeve. var.



1. Cochlostyla Philippinensis Reeve.—2, 3. C. hydrophana Sowerby.—4. C. metaformis Ferussac.—5, 6. C. tephrodes Pfeiffer.



1. Cochlostyla lignaria Pfeiffer.— 2. C. pictor Broderip.—3, 4, 5. C. fulgetrum Broderip.

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1, 2. Cochlostyla nobilis Reeve.—3, 4. C. Calista Broderip.—5, 6. C. subcarinata Pfeiffer.
7. C. Belcheri Pfeiffer.—8. C. Guimarasensis Broderip.

1. Cochlostyla Nympha Pfeiffer.—2, 3, 4. C. evanescens Broderip.—5, 6. C. straminea Semper.—7, 8. C. Guimarasensis Broderip.

1. Cochlostyla opalina Sowerby.—2, 3. C. Dumonti Pfeiffer.—4 á 8. C. cincinna Sowerby.—9. C. Barandæ Hidalgo.

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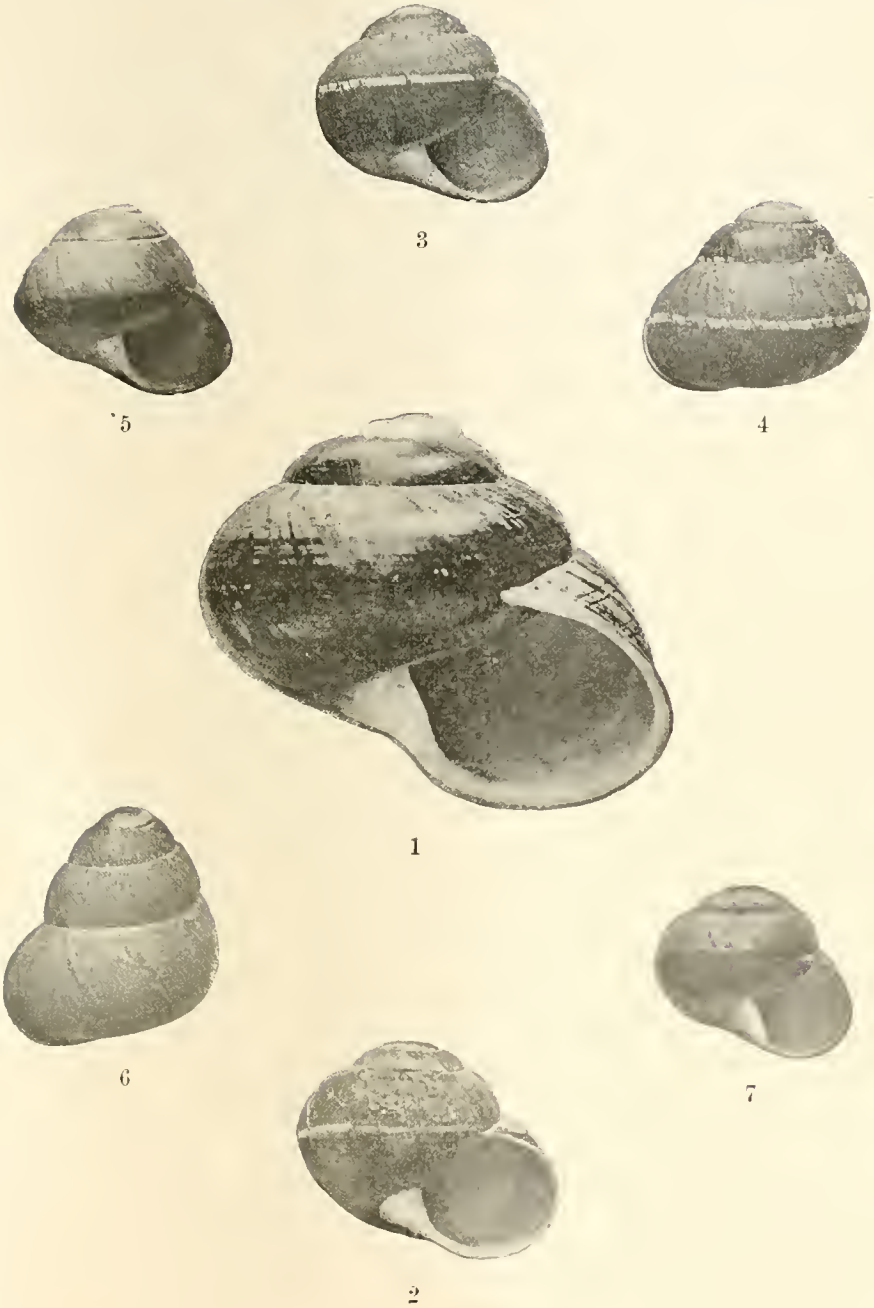
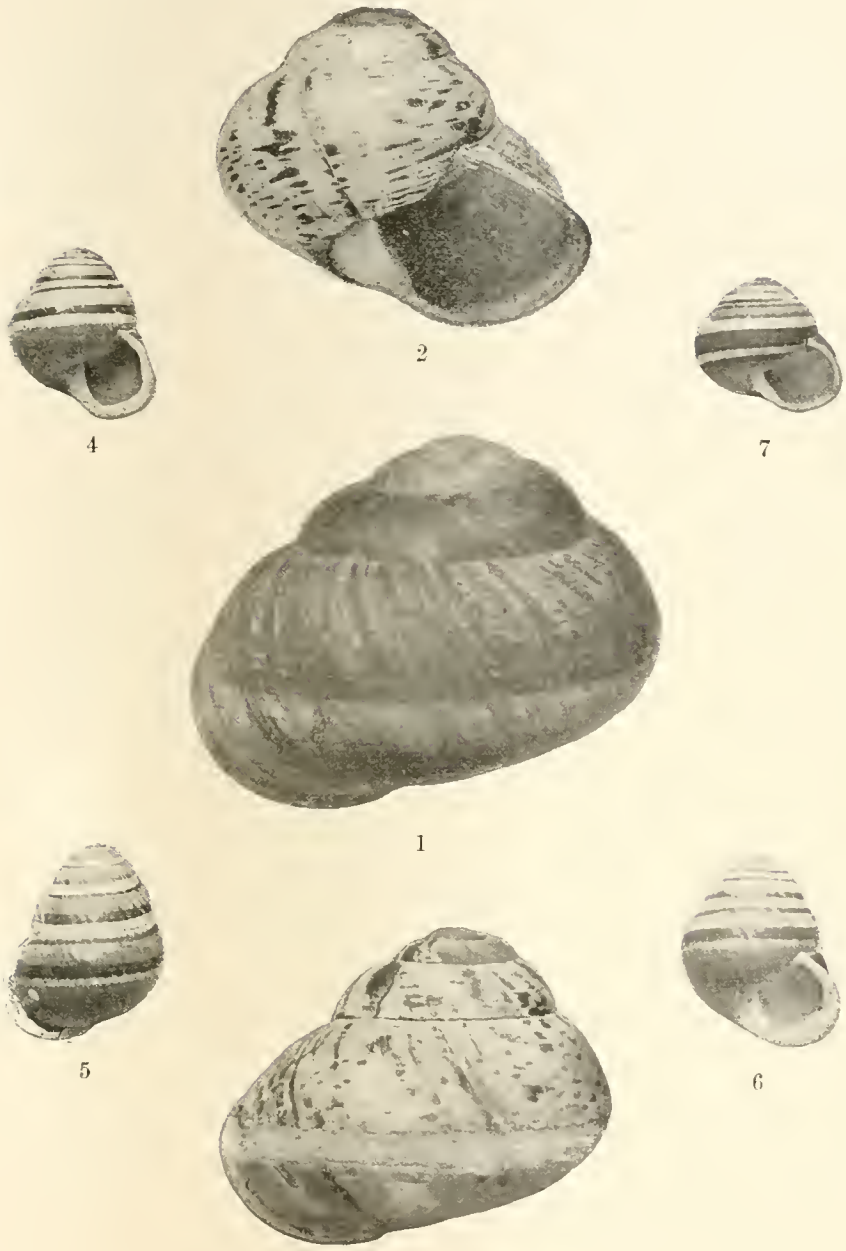
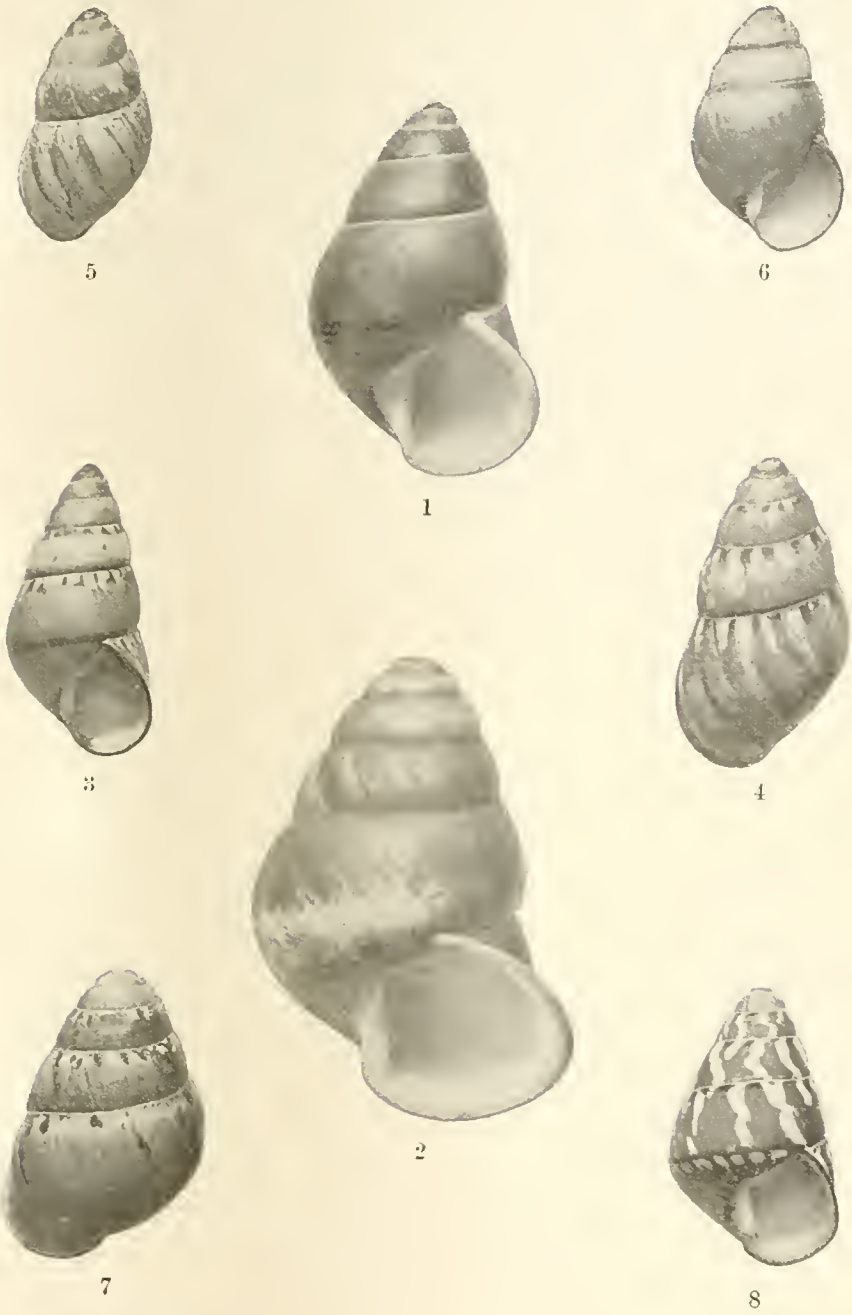
1 á 8.—Cochlostyla porracea Jay.



1. Cochlostyla Harfordi Broderip.—2. C. Dataensis Semper.—3, 4. C. erythrospira Möllendorff.—5, 6. C. Montfortiana Pfeiffer.—7. C. retusa Pfeiffer.



1. Cochlostyla Harfordi Broderip.—2, 3. C. Mindanaensis Sowerby.—4, 5, 6. C. Iloconensis Sowerby.—7. C. versicolor Möllendorff.



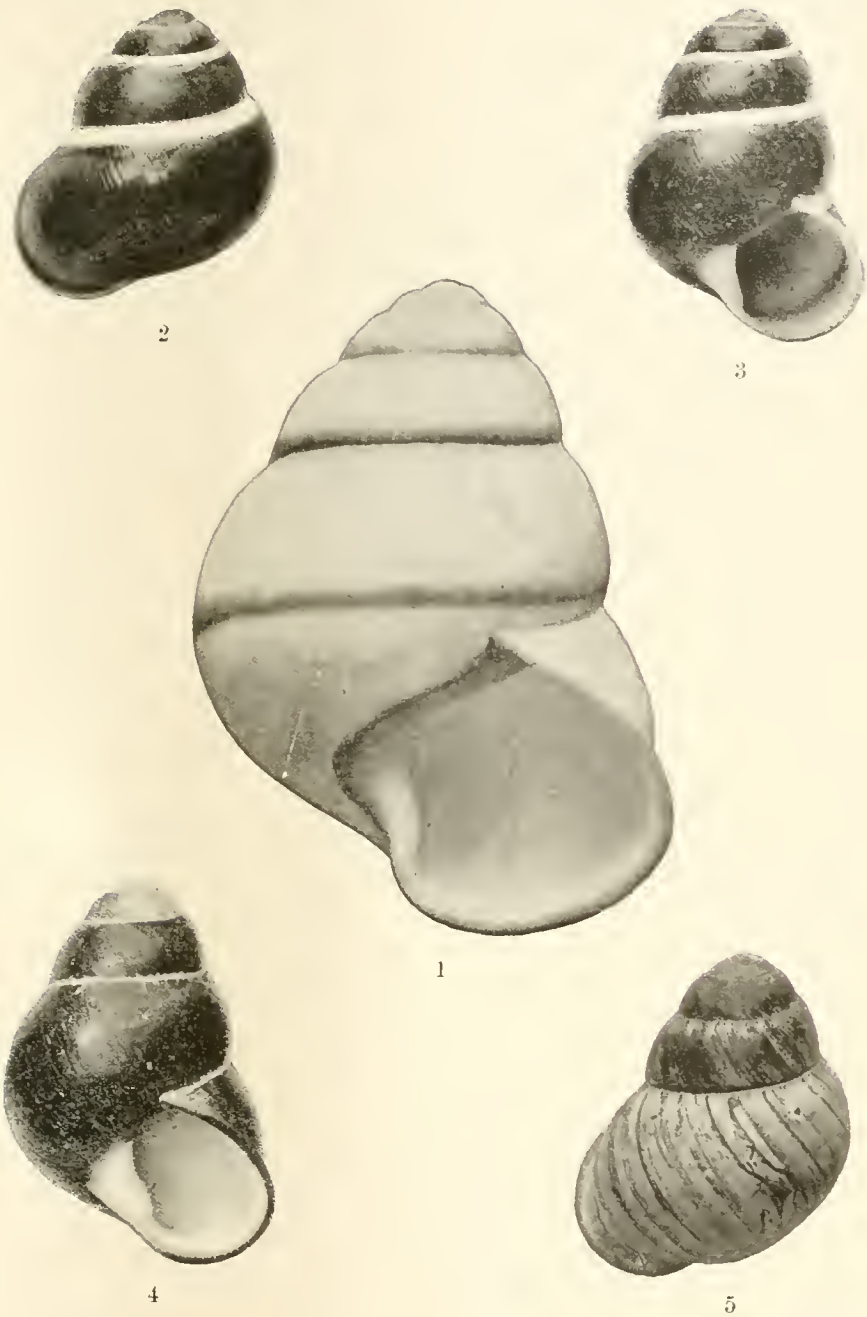
1. Cochlostyla decorata Ferussac.—2. C. Solai Hidalgo.—3, 4, 5, 6. C. velata Broderip.—7. C. leucophæa Sowerby. var.—8. C. flammula Semper.

1, 2. Cochlostyla connectens Möllendorff.—3 á 6. C. gracilis Lea.—7. C. solivaga Reeve.
8. C. virens Pfeiffer.

1 á 3. Cochlostyla Limansauensis Semper.—4. C. suprabadia Semper.—5, 6. C. Buschi Pfeiffer.—7, 8. C. Polillensis Pfeiffer.

1. Cochlostyla acuminata Sowerby. var.—2 á 6. C. calobapta Jonas.—7, 8. C. fictilis Broderip.—9. C. accedens Möllendorff.

1 á 4. Cochlostyla arata Sowerby.—5. C. Naujanica Hidalgo.—6, 7. C. brachyodon Sowerby.—8. Id. var.



1. Cochlostyla sarcinosa Ferussac.—2, 3. C. polychroa Sowerby. var.—4, 5. C. mus Broderip.

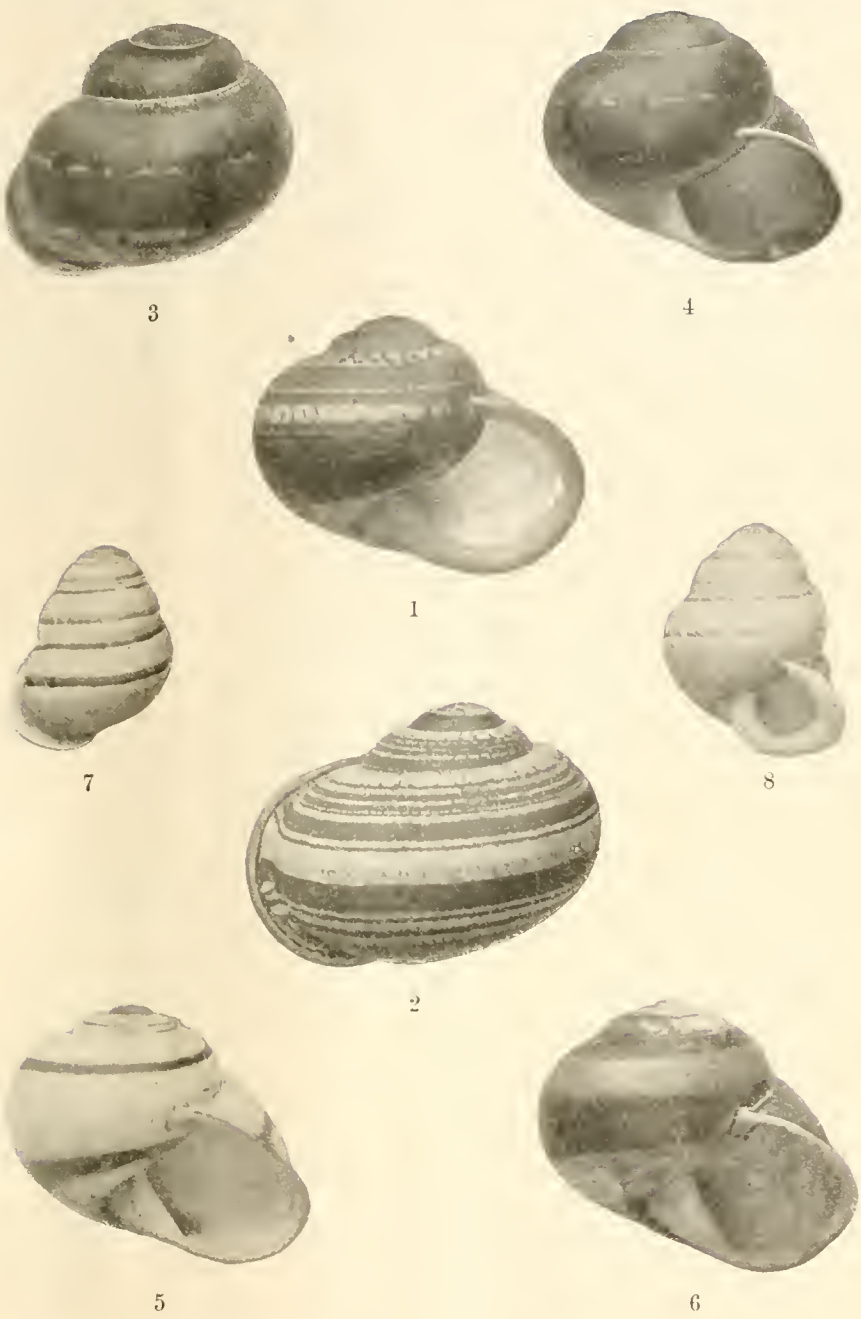
1 á 5. Cochlostyla rustica Mousson.—6, 7. C. oomorpha Sowerby.
8. C. oblonga Sowerby.

1. Cochlostyla Philippinensis Reeve.—2. C. Villari Hidalgo. var.—3 á 6. C. Möllendorffi Hidalgo.—7. C. Fischeri Hidalgo.—8. C. Nympha Pfeiffer. var.

1. Cochlostyla solida Pfeiffer. var.—2. C. adusta Sowerby.—3 á 6. C. Calamianica Quadras y Möllendorff.—7. C. virens Pfeiffer. var.—8. C. connectens Möllendorff. var.

1 á 7. Cochlostyla virgata Jay. variedades.

1. Cochlostyla fulgens Sowerby, var.—2. C. orbitula Sowerby.—3. C. Leopardus Pfeiffer.
4. C. Pilsbryi Hidalgo.—5 á 7. C. mus Broderip. var.—8. C. curta Sowerby. var.



1, 2. Cochlostyla festiva Donovan.—3, 4. C. zonifera Sowerby. var.—5. C. Samarensis Semper.—6. C. microspira Pfeiffer.—7, 8. C. Iloconensis Sowerby.

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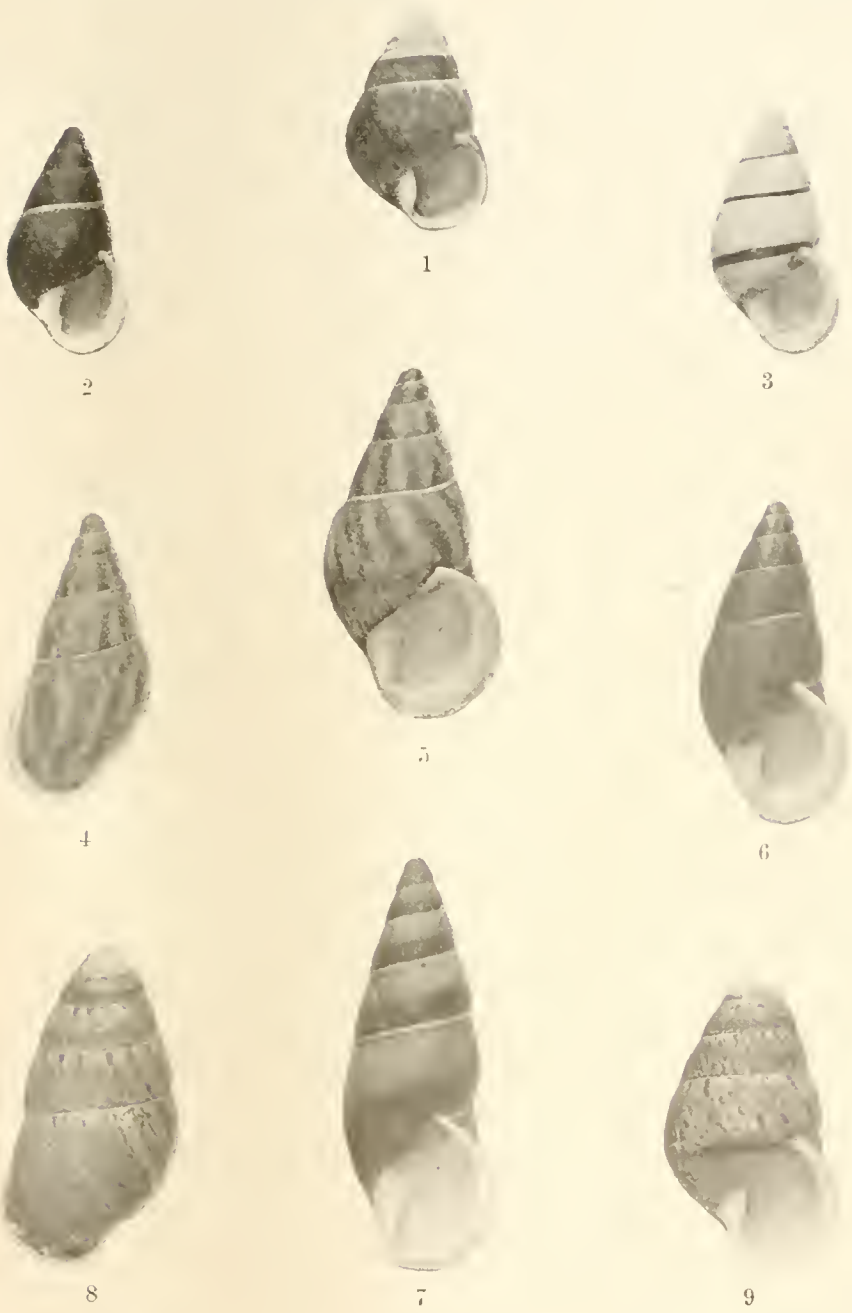
1 á 5. Cochlostyla Mindoroensis Broderip.

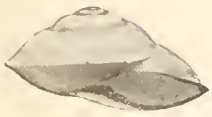


1. Cochlostyla Cossmanniana Crosse.—2, 3. C. Partuloides Broderip.—4 á 7. C. porracea Jay. variedades.—8, 9. C. balanoides Jonas.

1, 2. Amphidromus maculiferus Sowerby. var.— 3, 4. A. Chloris Reeve.— 5 á 8. A. entobaptus Dohrn.

1 á 6. Amphidromus maculiferus Sowerby.

1 á 4. Amphidromus nigrofilosus Rochebrune.—5, 6. A. Quadrasi Hidalgo.
7, 8. A. dubius Fulton.



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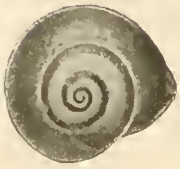

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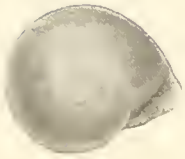

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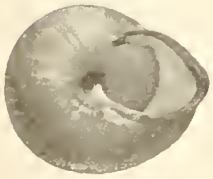

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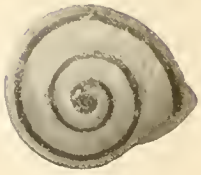

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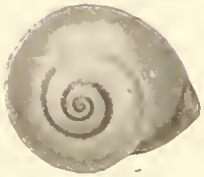

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1 á 8. Helix Dryope_Broderip.—9. H. phloiodes Pfeiffer.

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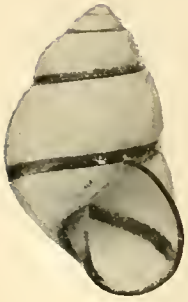

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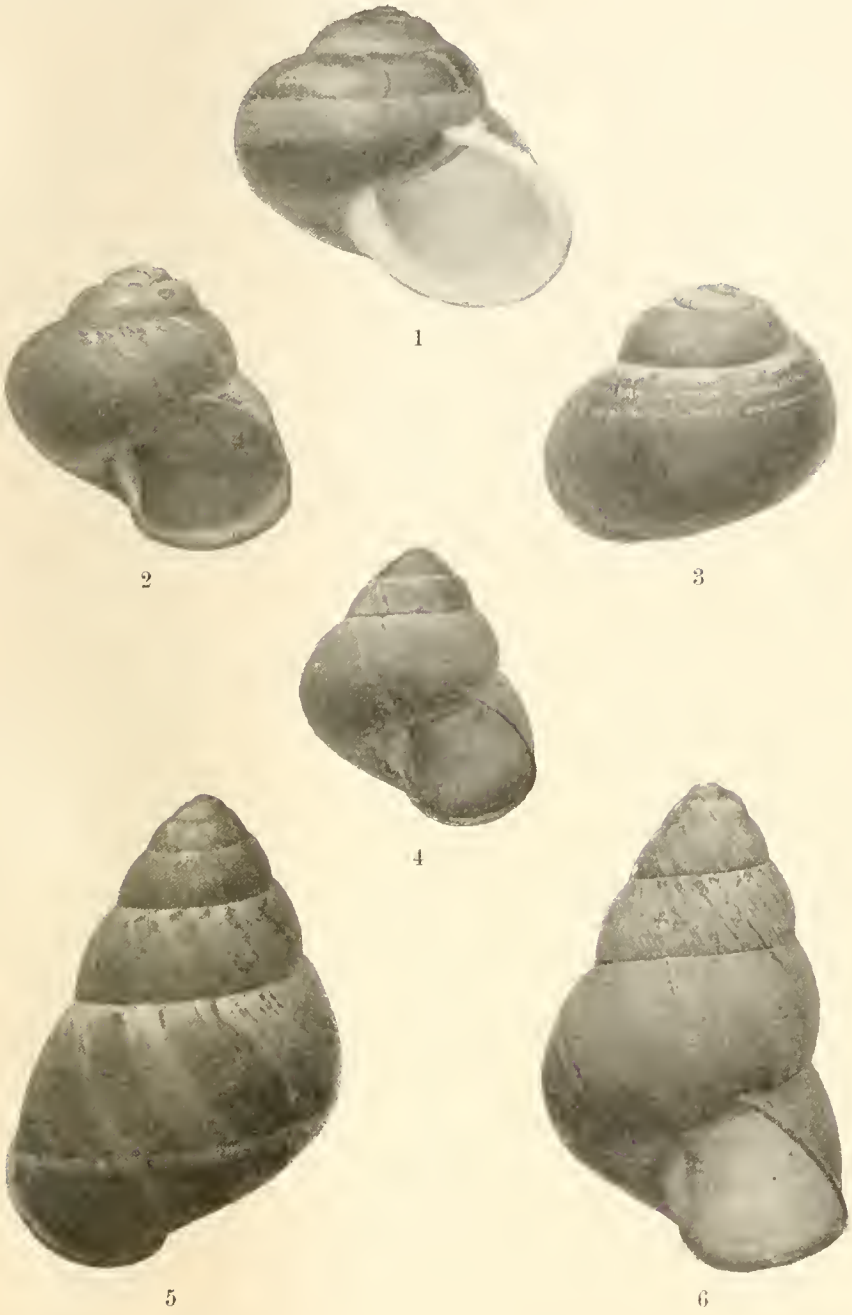
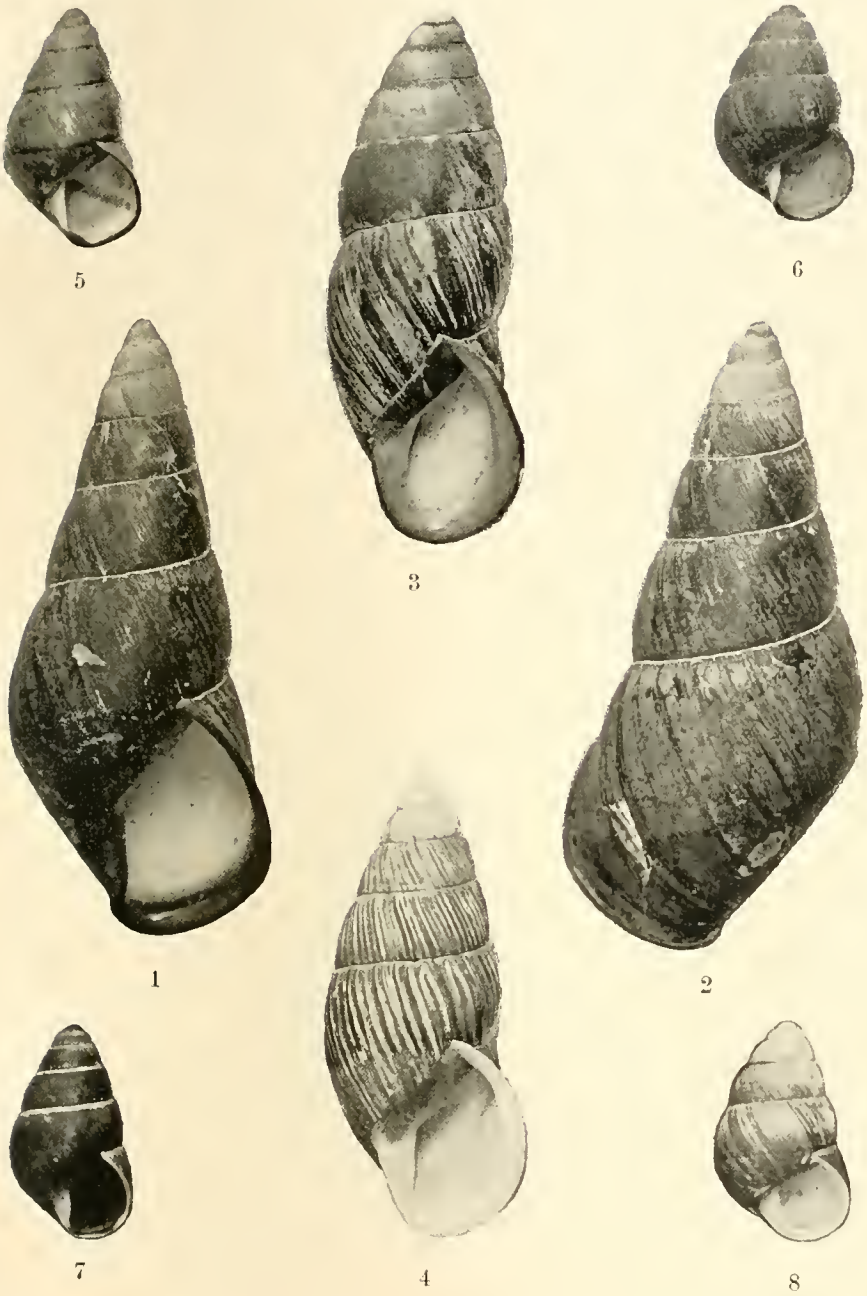
1, 2. Cochlostyla Jonasi Pfeiffer.—3. C. Leai Pfeiffer.—4. C. Buschi Pfeiffer, var.
5. C. hololeuca Pfeiffer.—6. C. phæostyla Pfeiffer. var.—7. C. Barandæ Hidalgo, var.
8. C. aplomorpha Jonas.

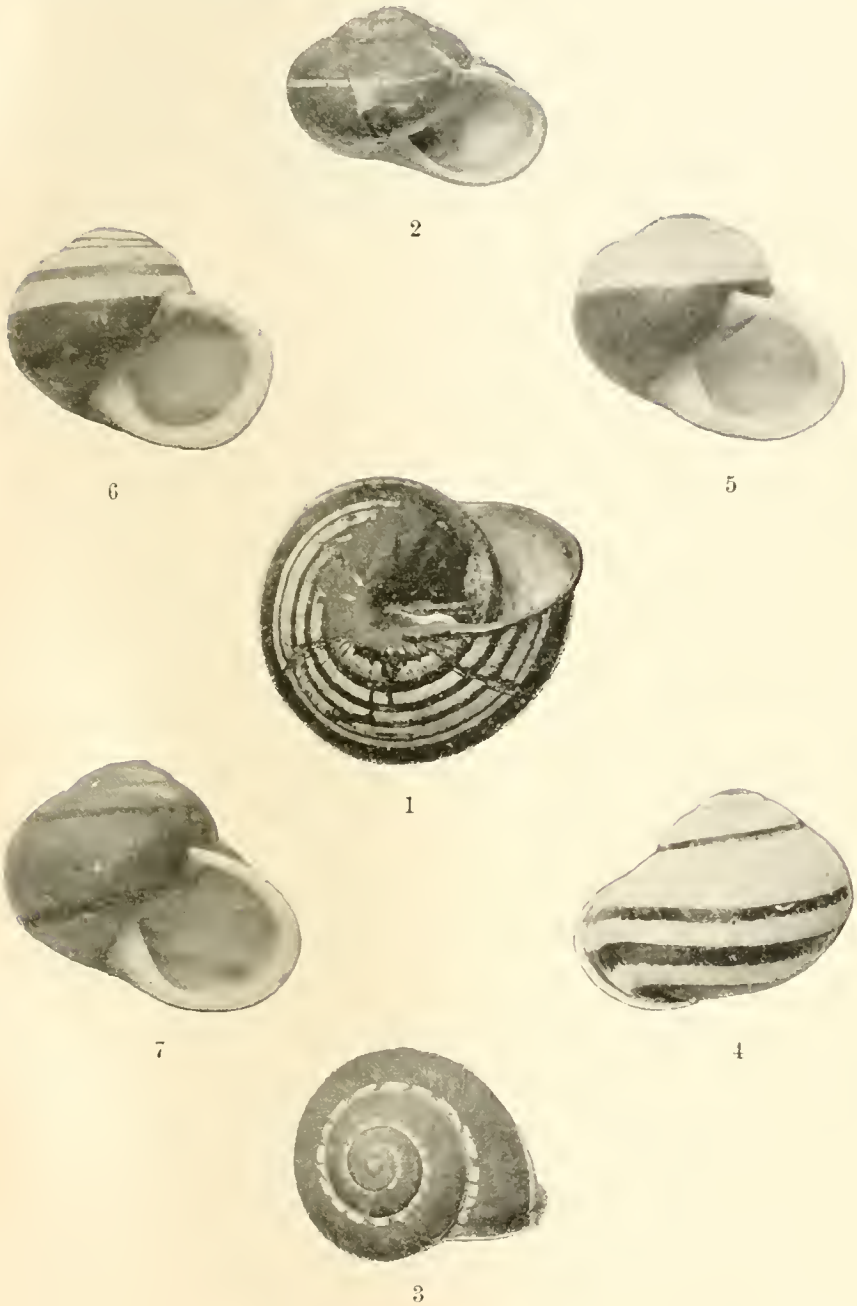


1. Cochlostyla Cailliaudi Deshayes. var.—2. C. Luengoi Hidalgo.—3. C. Princeps Reeve.
4. C. Pithogaster Ferussac. var.—5. C. rufogaster Lesson.—6. C. Faunus Broderip.



1, 2. Cochlostyla turris Semper.—3, 4. C. chrysalidiformis Sowerby.
5. C. acuminata Sowerby.—6. C. pyramidalis Sowerby.—7, 8. C. Quadrasi Hidalgo.

1. Cochlostyla Mindoroensis Broderip.—2, 3. C. nimbosa Broderip.—4. C. solida Pfeiffer. 5 á 7. C. modesta Sowerby.—8. C. quadrifasciata Hidalgo.



1. Cochlostyla depressa Semper.—2, 3. C. Annæ Semper. var.
4 C. Albaiensis Sowerby. var. Semperi.—5, 6, 7. C. xanthobasis Pilsbry.

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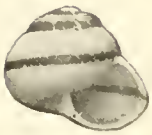

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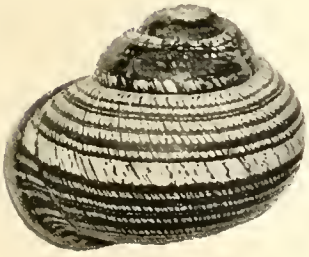

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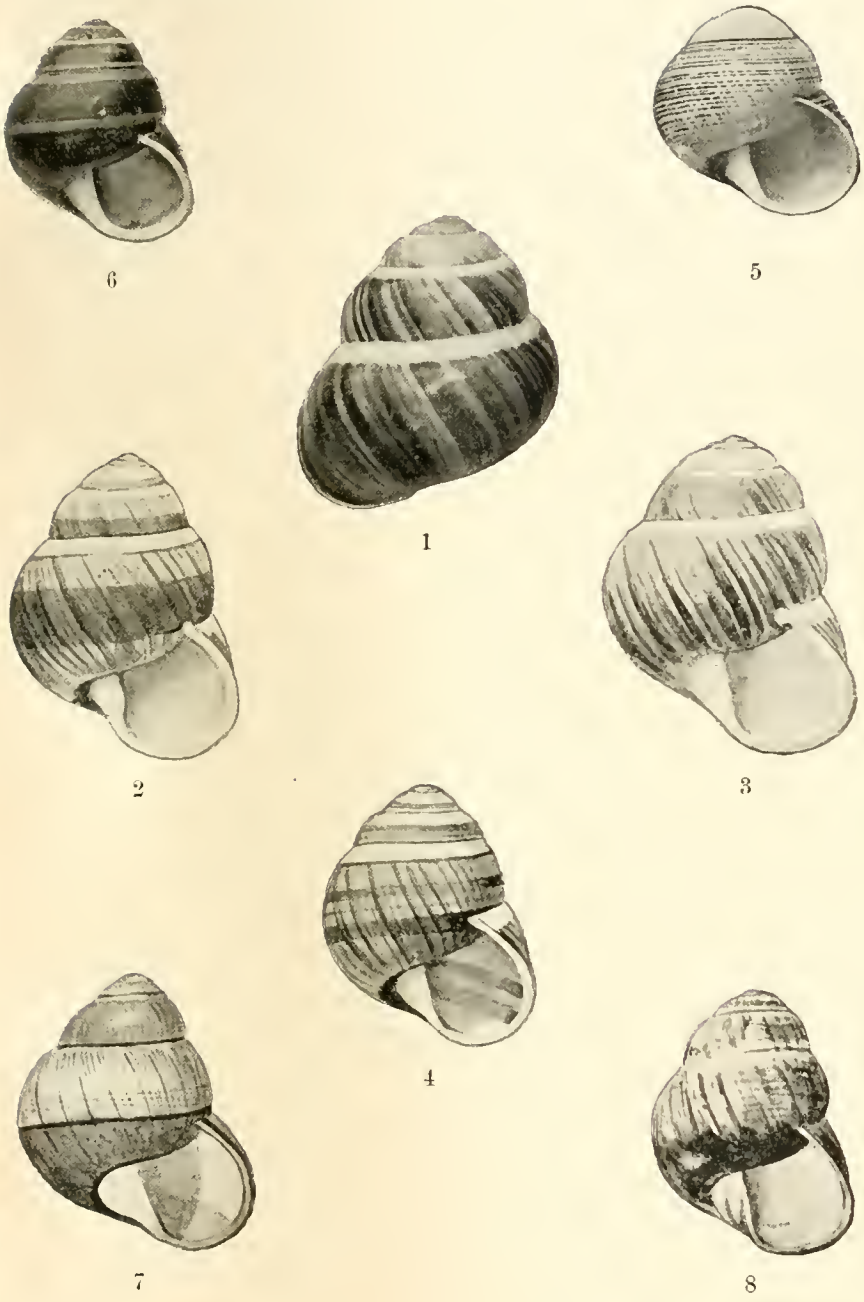
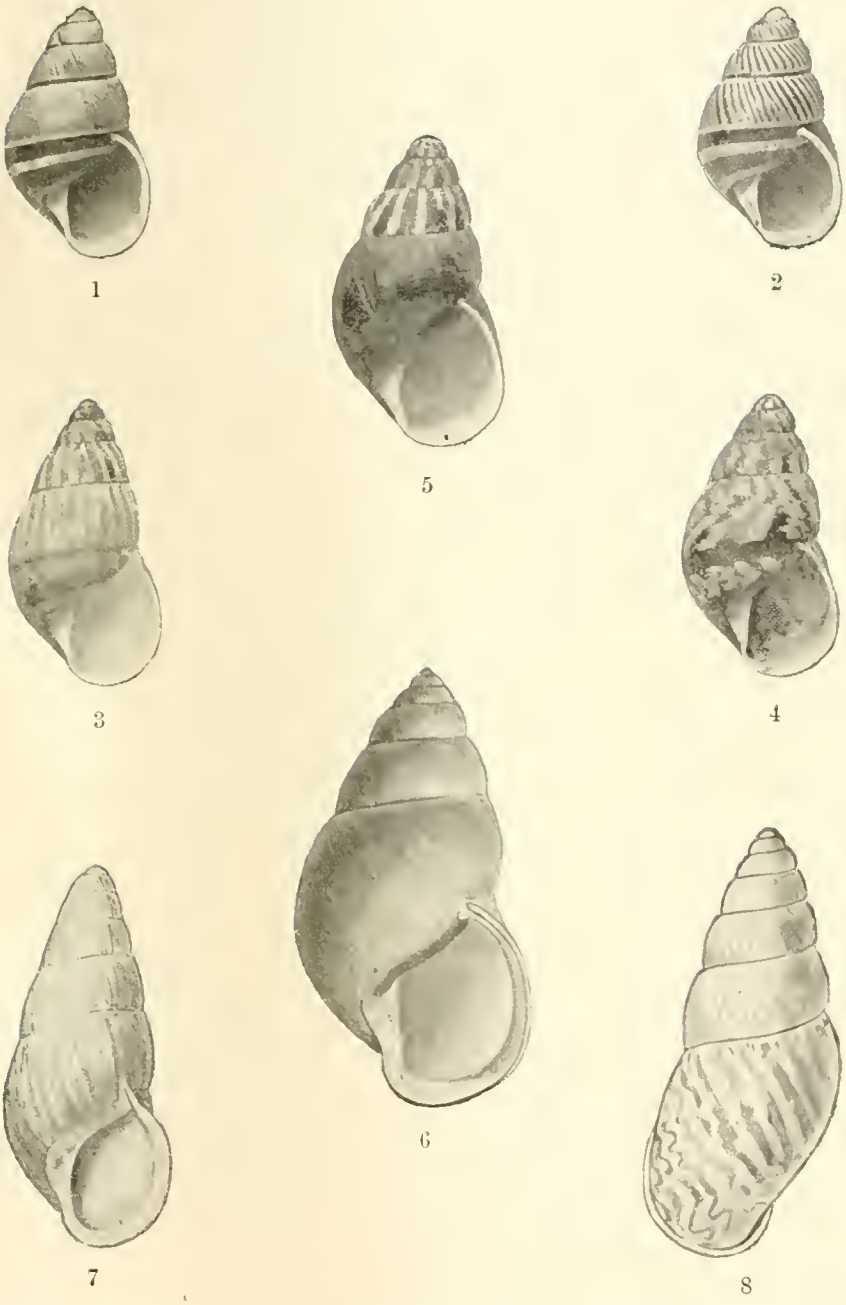
1 á 3. Cochlostyla pulcherrima Sowerby.—4. C. obtusa Pfeiffer.
5 C. pulchella Möllendorff.—6, 7. C. hydrophana Sowerby.

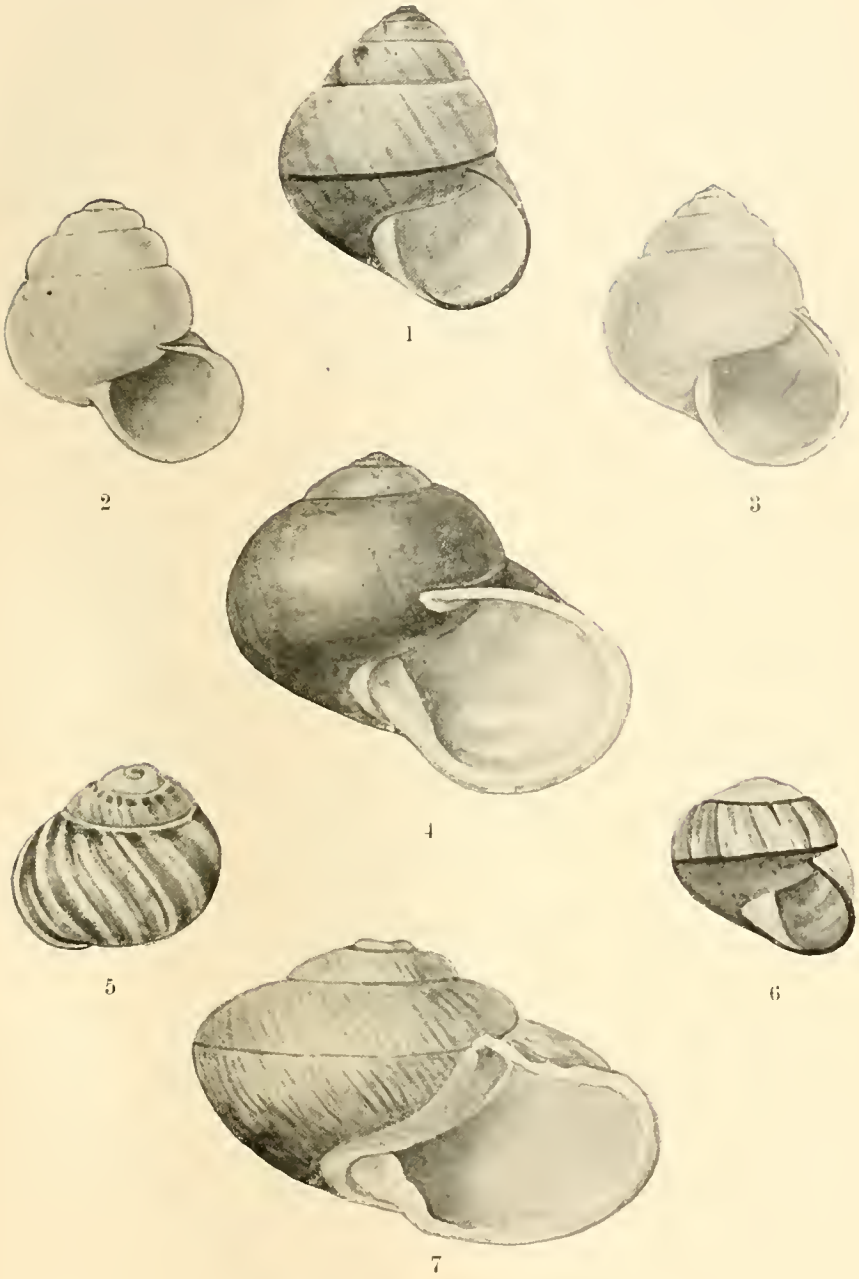


1 á 4. Cochlostyla viridostriata Lea.—5. C. Butleri Pfeiffer.—6. C. fulgens Sowerby. var.
7. C. Seckendorffiana Pfeiffer.—8. C. glaucophtalma Pfeiffer.

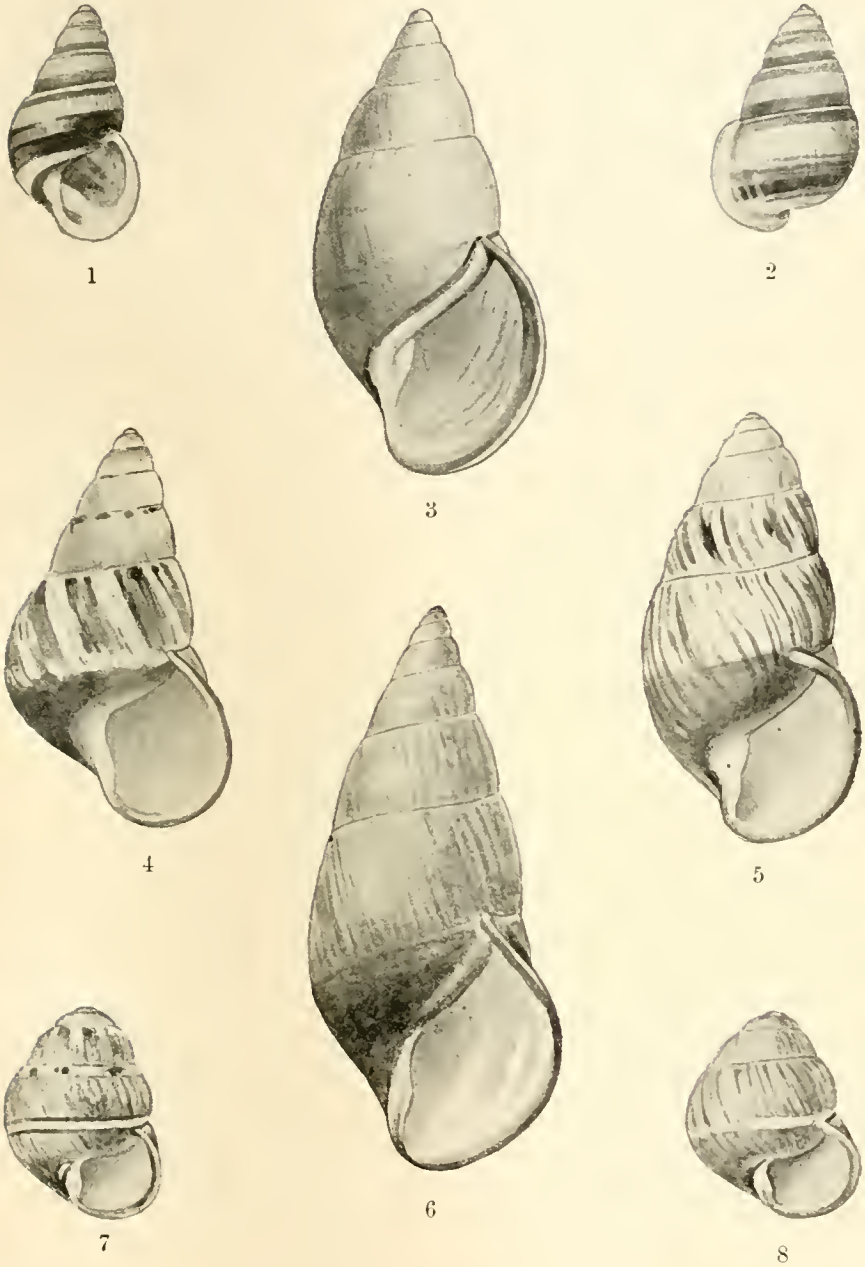


1 á 5. Cochlostyla Fischeri Hidalgo, variedades.—6. C. frater Ferussac.
7, 8. C. Diana Broderip.

1. Cochlostyla Samarensis Semper.—2, 3. C. hemisphærion Pfeiffer.—4. C. Caillaudi Deshayes.—5. C. chlorochroa Pfeiffer.—6. C. Polillensis Pfeiffer, var. Hector.



1. Cochlostyla subglobosa Lea.—2. C. unica Pfeiffer.—3. C. halichlora Semper.
4. C. Cailliaudi Deshayes. var. ferruginea.—5, 6. C. retusa Pfeiffer.
7. C. cryptica Broderip. var. cineracea.



1, 2. Cochlostyla nigrocincta Semper.—3. C. electrica Reeve, var. Cailliaudi.
4. C. Hainesi Pfeiffer.—5. C. Palawanensis Pfeiffer.—6. C. carinata Lea.
7, 8. C. montana Semper.

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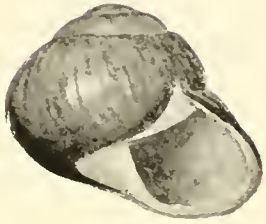

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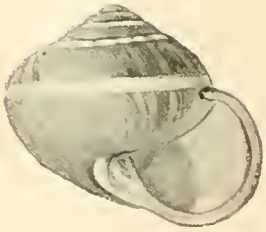

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1, 2. Cochlostyla Damahoyi Pfeiffer.—3, 4. C. Rehbeini Pfeiffer.—5. C. obtusa Pfeiffer.
6. C. Moreleti Pfeiffer.—7, 8. C. Annæ O. Semper.

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1. Cochlostyla eburnea Reeve.—2. C. Aegle Broderip.—4. C. sarcinosa Ferussac. var. 4. C. Guimarasensis Broderip.—5. C. Siquijorensis Pfeiffer.

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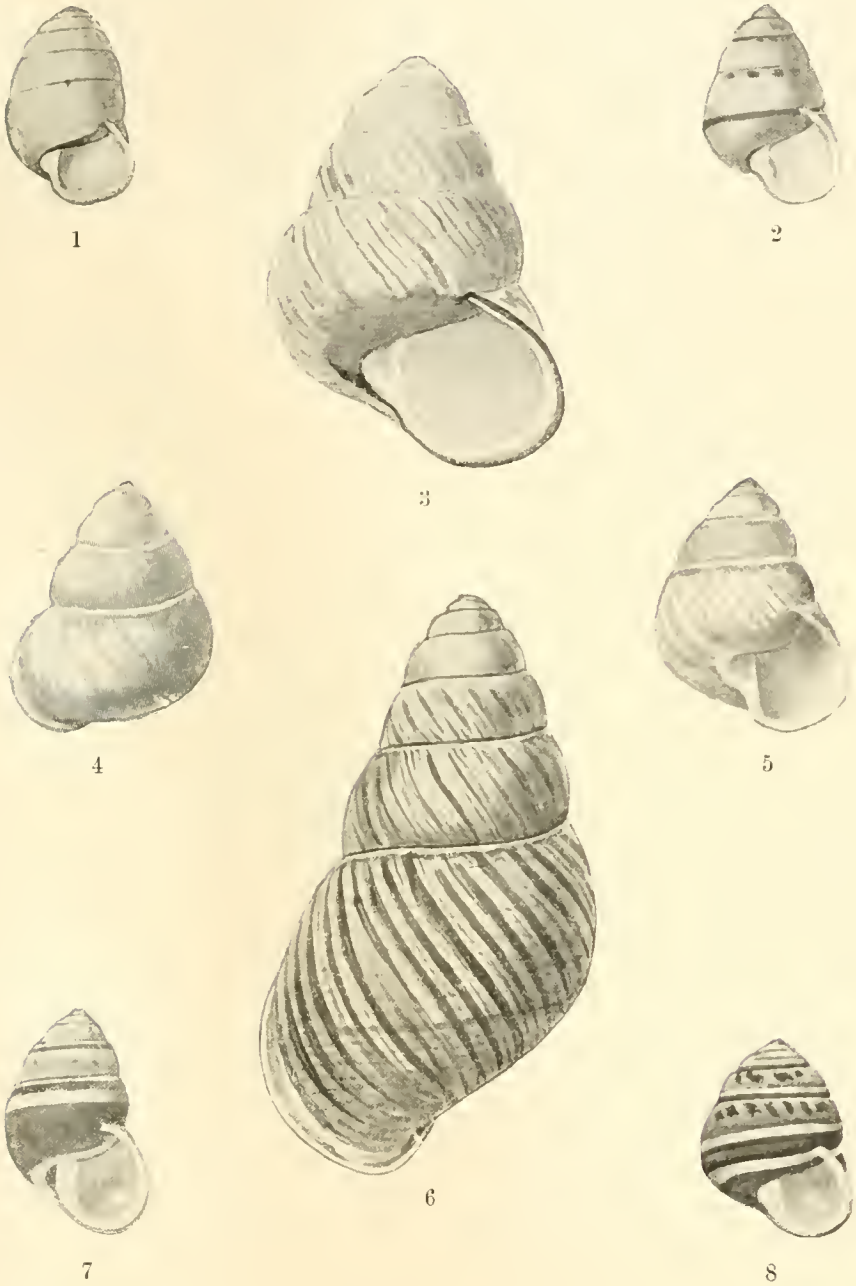
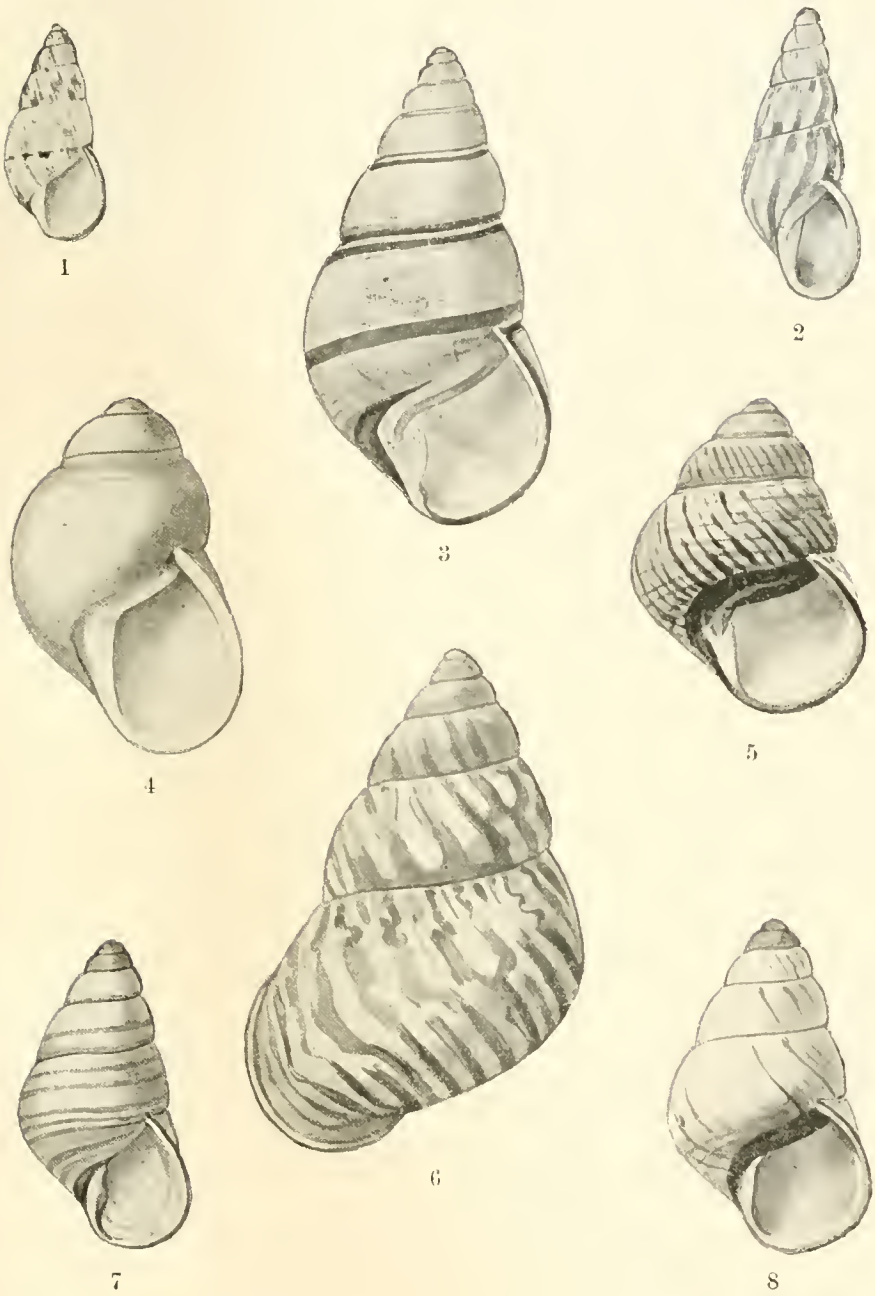
1, 2. Cochlostyla dilatata Pfeiffer.—3. C. Nux Semper.—4. C. Trailli Pfeiffer.—5. C. cinerosa Pfeiffer.—6. C. oviformis Semper.—7. C. Belcheri Pfeiffer.—8. C. gracilis Lea.

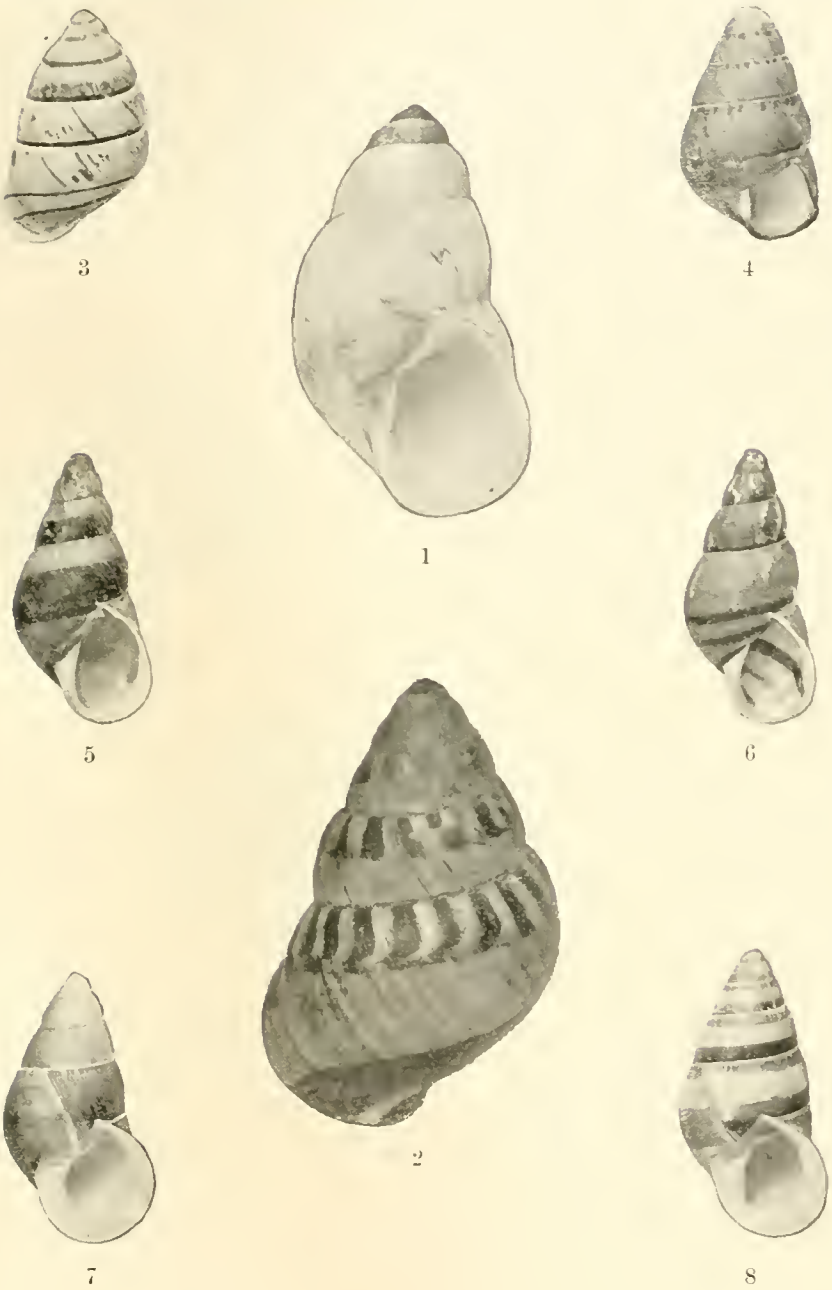


1. Cochlostyla brevicula Pfeiffer.—2. C. incompta Sowerby.—3. C. Pilsbryi Hidalgo.
4, 5. C. Buschi Pfeiffer.—6. C. solida Pfeiffer.—7. C. oomorpha Sowerby.
8. C. fenestrata Sowerby.

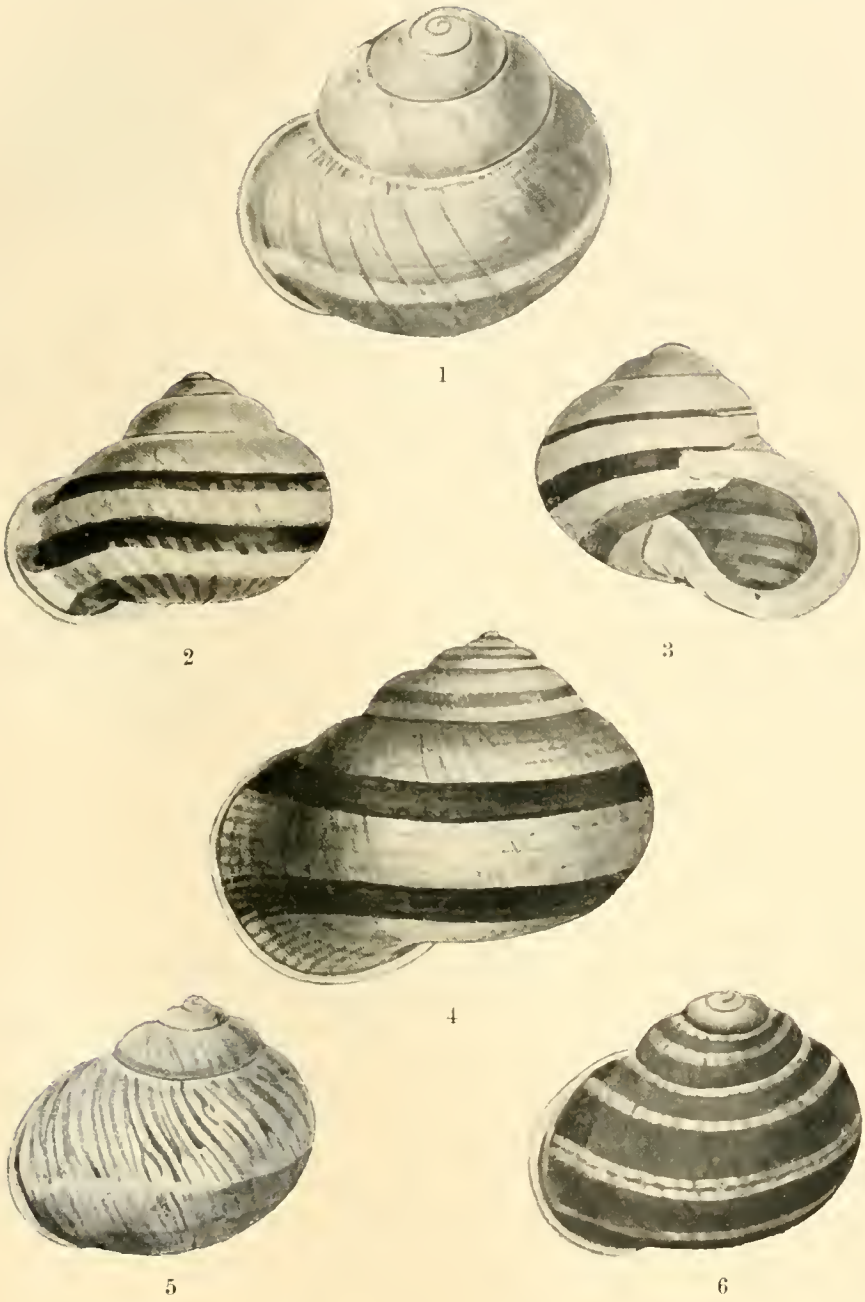
1, 2. Cochlostyla generalis Pfeiffer.—3. C. languida Pfeiffer.—4. C. tenera Sowerby, var.
5. C. ponderosa Pfeiffer.—6. C. microspira Pfeiffer.



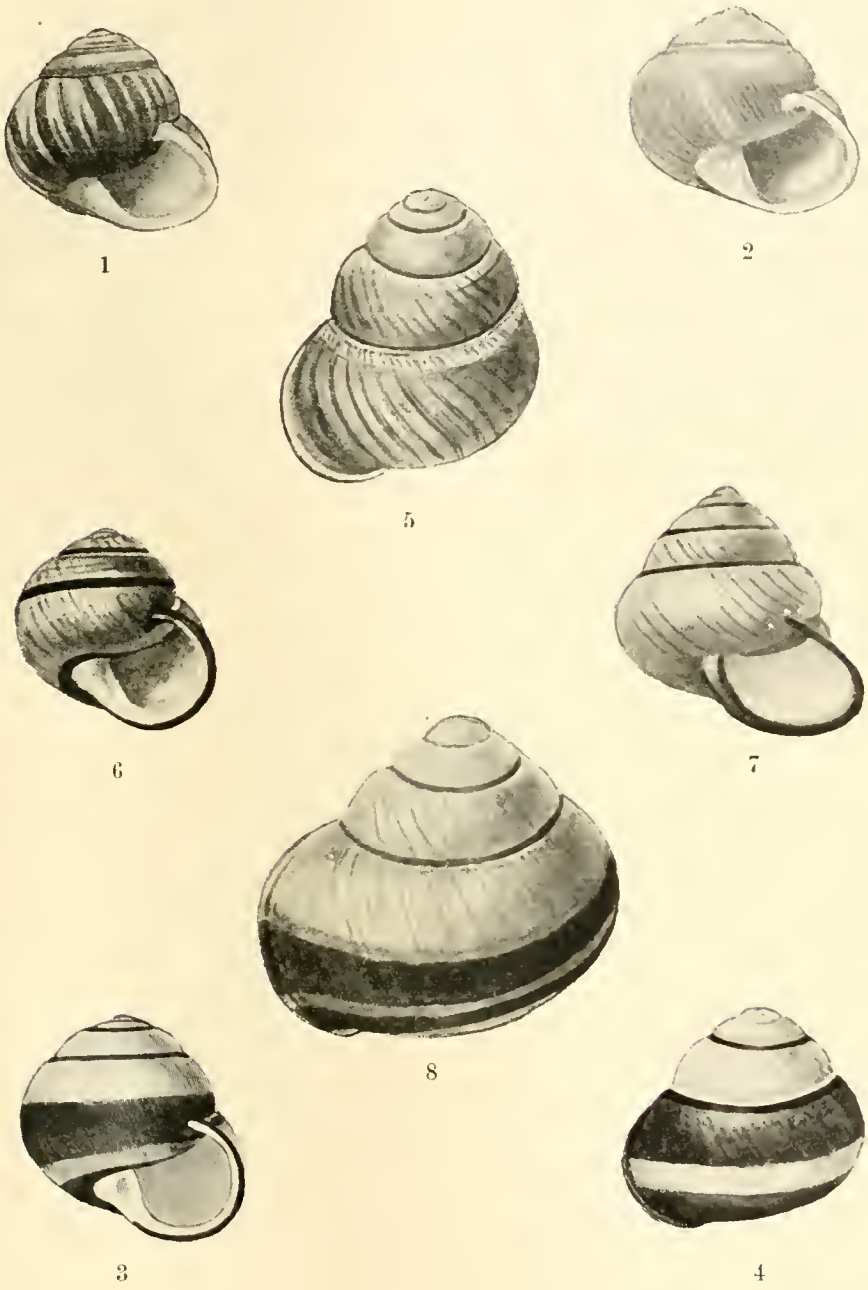
1. Cochlostyla Cuyoensis Pfeiffer.—2. C. larvata Broderip.—3. C. succincta Reeve.
4. C. uber Pfeiffer.—5. C. Daphnis Broderip. var. cunctator.—6. C. nimbosa Broderip. var. Pfeifferiana.—7. C. Calypso Broderip.—8. C. solivaga Reeve.



1. Cochlostyla smaragdina Reeve.—2. C. Alberti Broderip. var.
3. C. stabilis Sowerby.—4. C. concinna Sowerby, var.—5, 6. C. calobapta Jonas. var.
7, 8. C. nigrocincta Semper.



1. Cochlostyla chlorochroa Sowerby.—2, 3. C. Albaiensis Sowerby. var. Semperi.
4. C. Cailliaudi Deshayes.—5. C. Sowerbyi Hidalgo.—6. C. pulcherrima Sowerby. var.



1. Cochlostyla Roissyana Ferussac. var. infuscata.—2, 3, 4. C. Roissyana Ferussac. variedades.—5. C. viridostriata Lea. var.—6. C. spherica Sowerby. var.—7. C. collodes Sowerby.—8. C. Pan Broderip. var.

1. Cochlostyla? Dumonti Pfeiffer. var. — 2. C. nimbosa Broderip. — 3. C. leucophæa Sowerby. var. — 4. C. montana Semper. — 5, 6. C. Daphnis Broderip. variedades.

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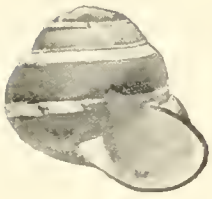

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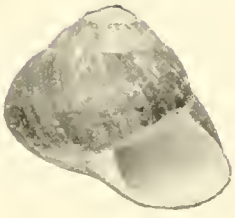

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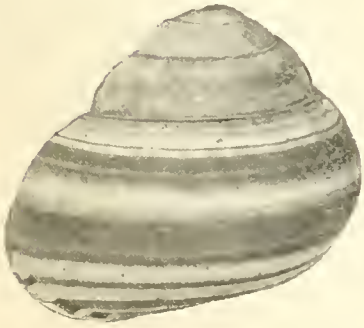

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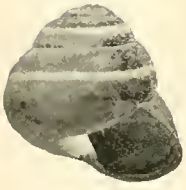

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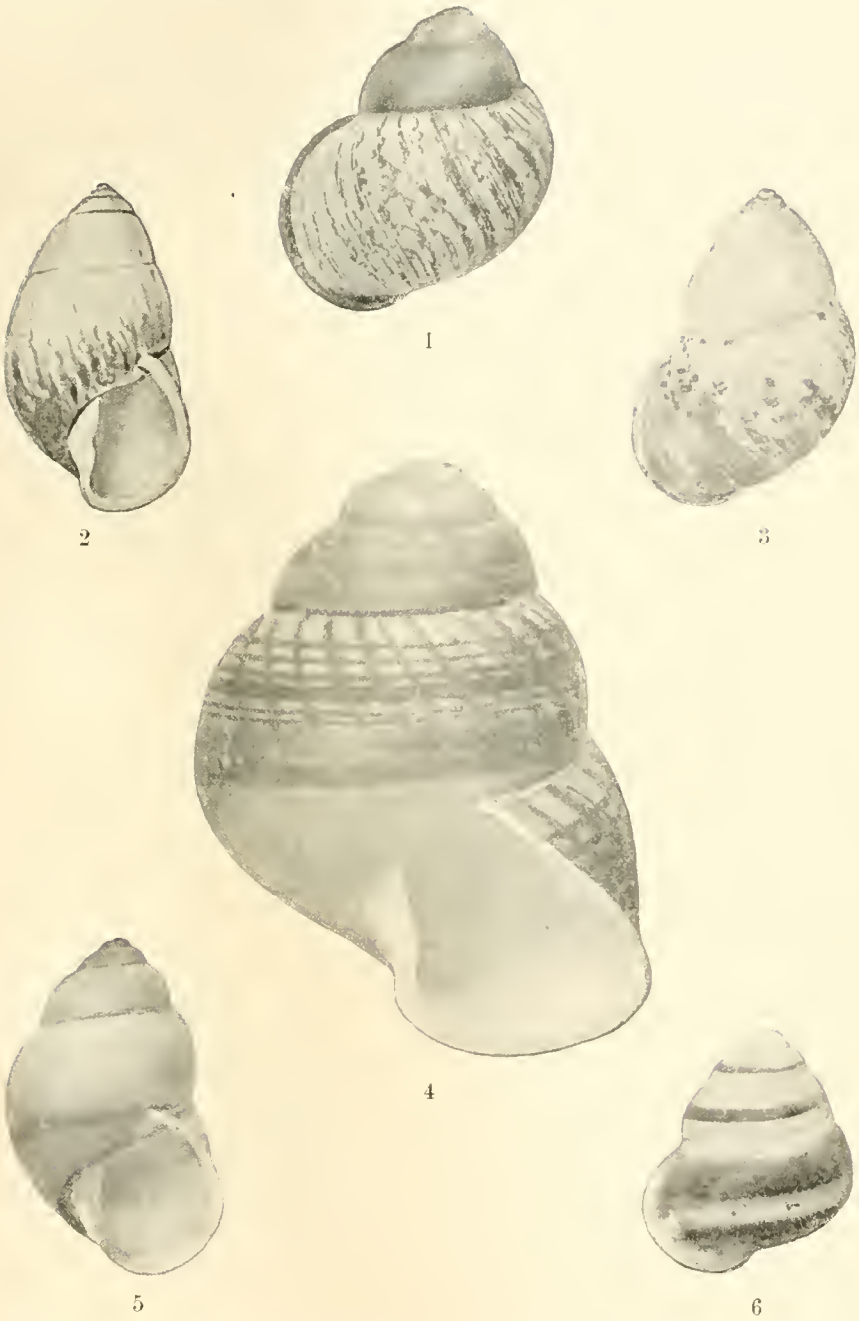
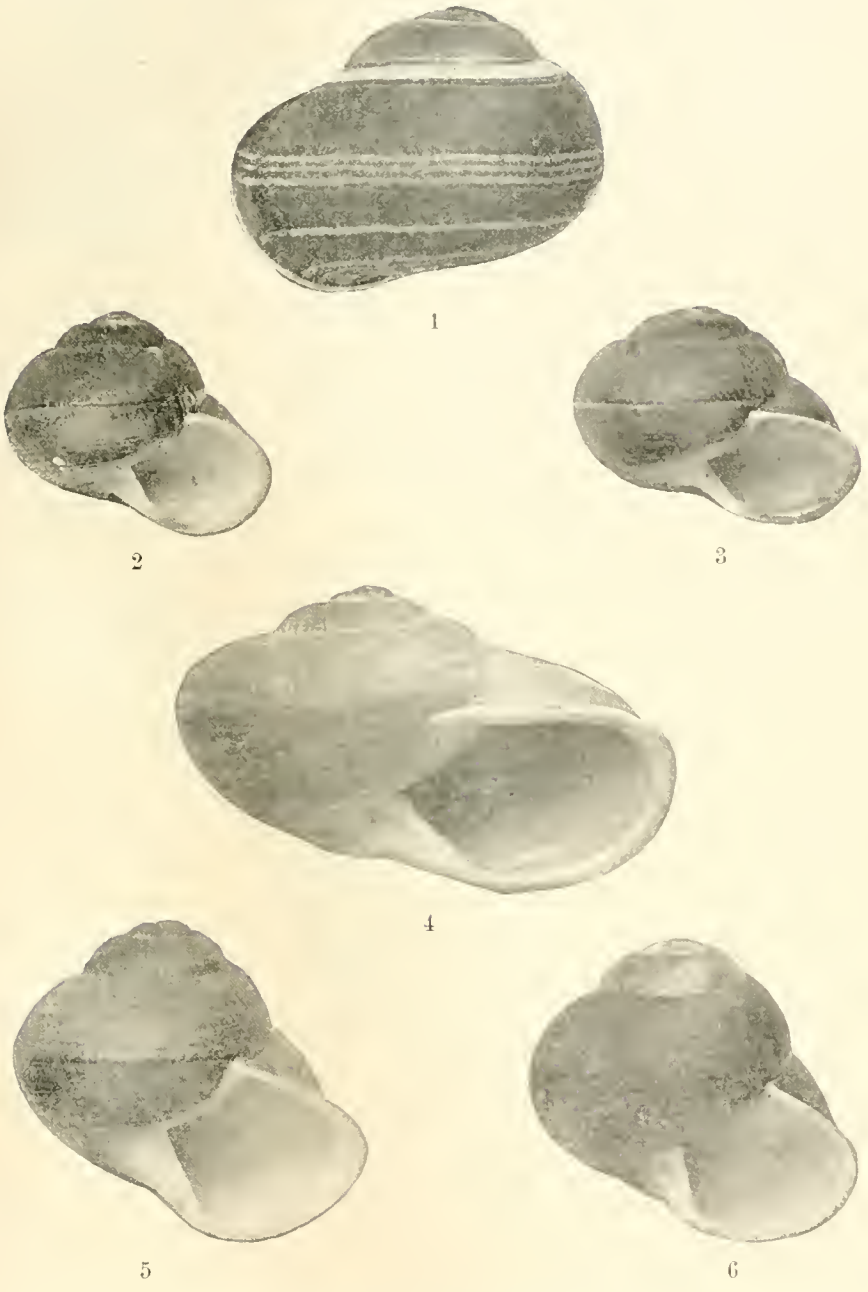
1, 2. Cochlostyla melanorhaphe Quadras y Möllendorff.—3, 4. C. Pan Broderip.
5. C. obtusa Pfeiffer.—6. C. decora Adams y Reeve.—7, 8. C. dimera Jonas. variedades.

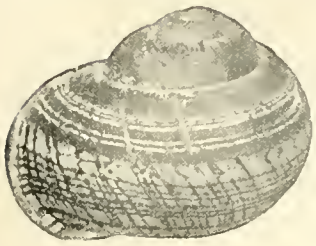


1. Cochlostyla Leopardus Pfeiffer, var.— 2, 3. C. paradoxa Semper.
4. C. turgens Deshayes.— 5. C. Barandæ Hidalgo, var.— 6. C. ignobilis Sowerby. var.



1. Cochlostyla Princeps Reeve, var.
2, 3. C. Dattaensis O. Semper.—4. C. cryptica Broderip, var. cineracea.—5. C. cryptica Broderip, var.—6. C. Polillensis Pfeiffer, var. Andromache.

1, 2. Cochlostyla Rollei Möllendorff.—3, 4. C. Boholensis Broderip.
5. C. calobapta Jonas. var.—6. C. porracea Jay. var.—7. C. connectens Möllendorff. var.
8. C. flammula Semper.



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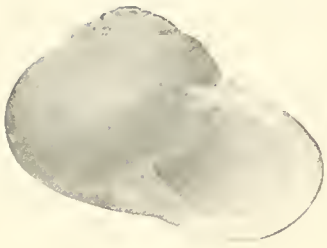

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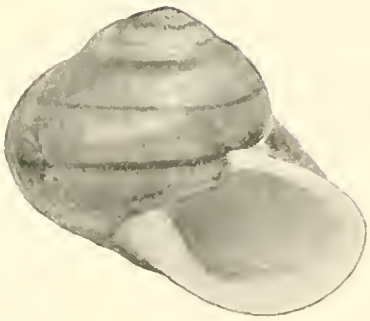

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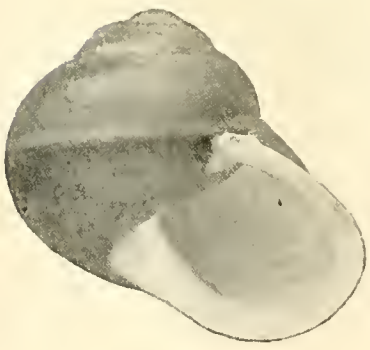

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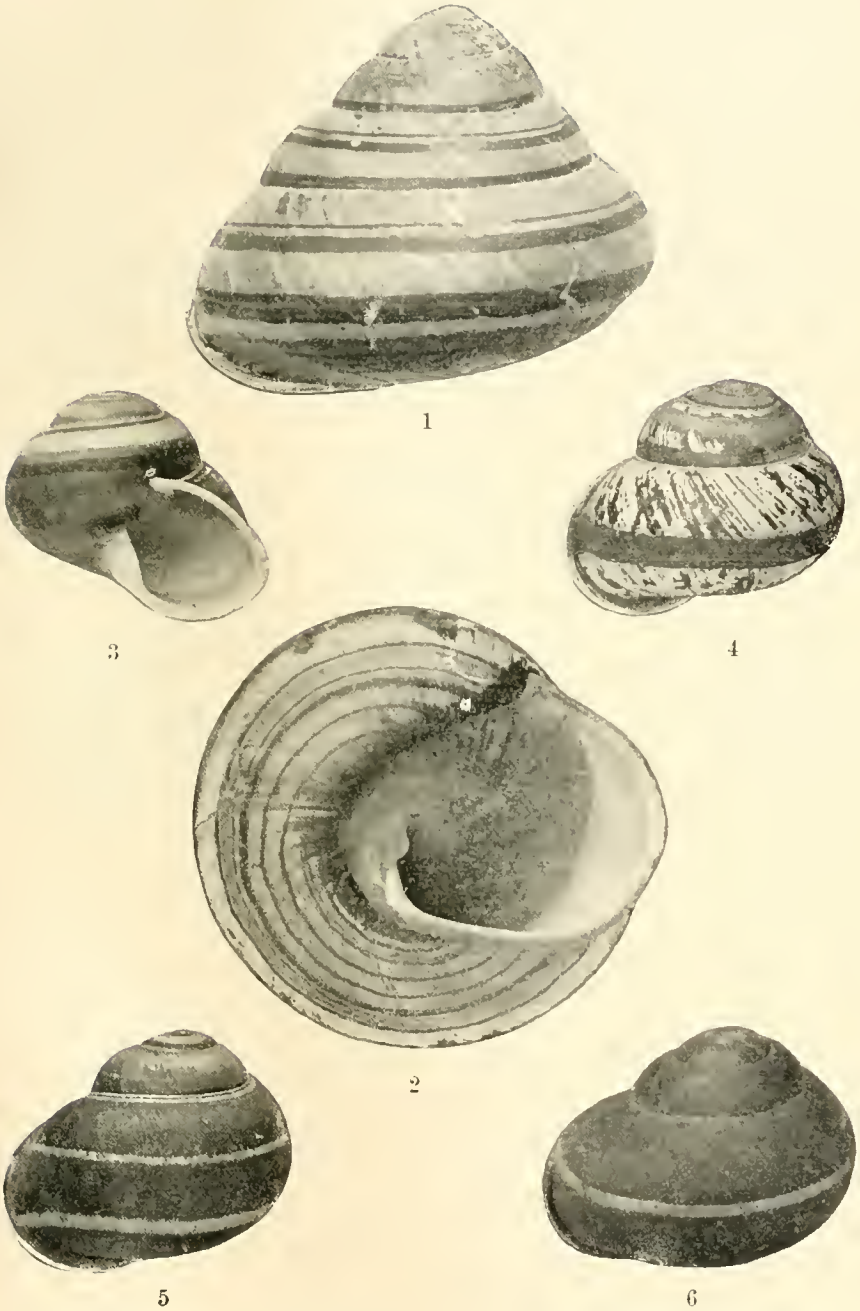
1 á 3. Cochlostyla festiva Donovan, variedades.
4 á 6. C. Cailliaudi Deshayes, variedades.—7. Gilberti Quadras y Möllendorff.



1, 2.—Cochlostyla Carolus Deshayes.—3 á 5.—C. paraleuca Pilsbry, variedades.
6. C. erythrospira Möllendorff.

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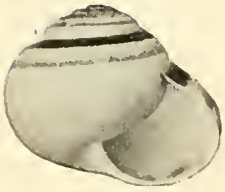

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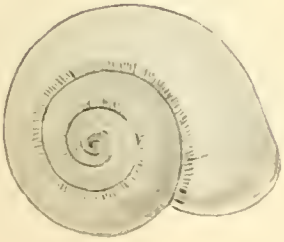

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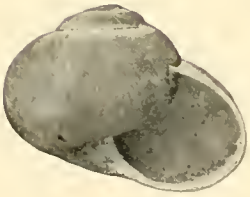

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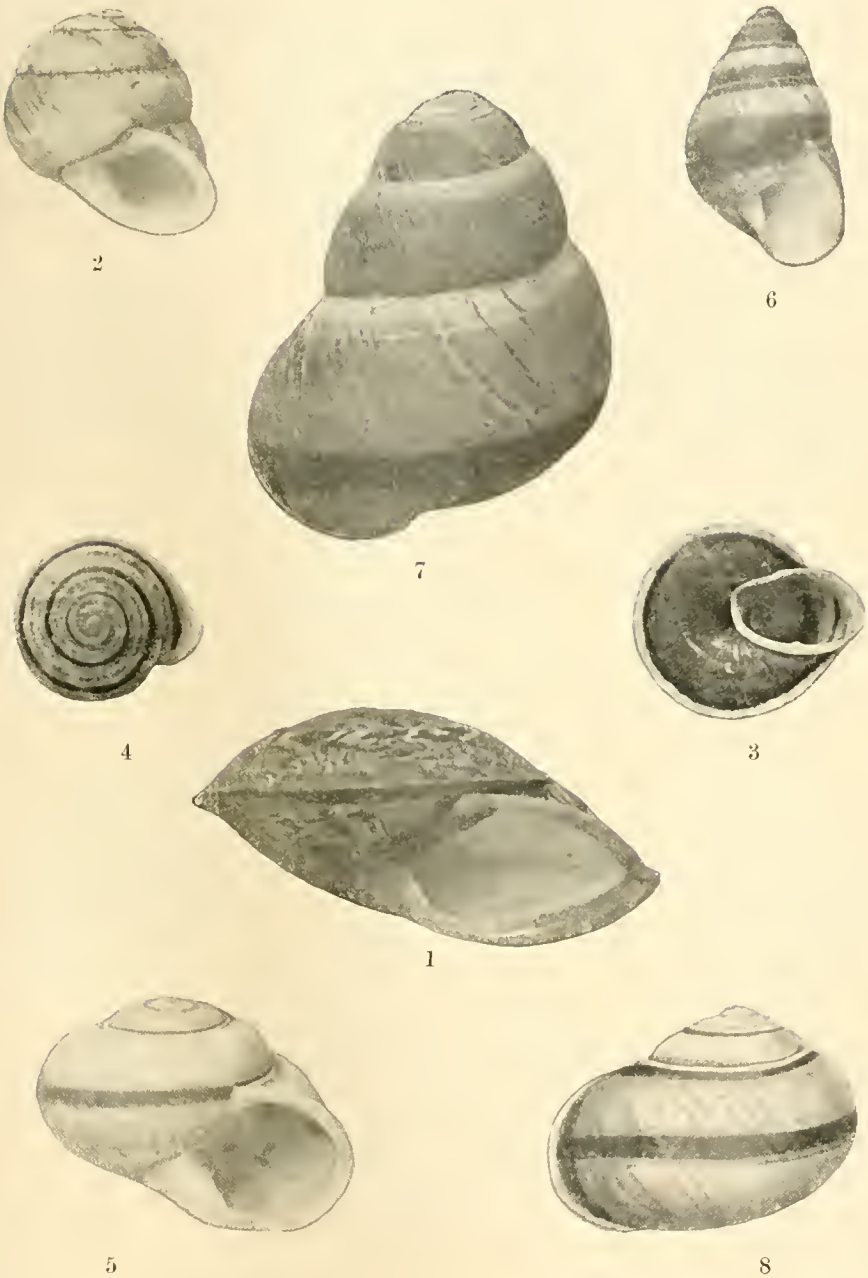
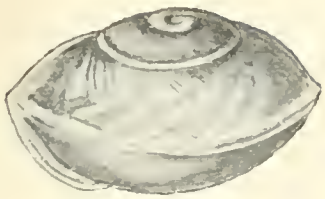
1. Pfeifferia micans Pfeiffer.—2. H. luteocincta Semper.—3. Id. var.
4, 5, 6. H. lividocincta Semper.—7, 8, 9. Cochlostyla erubescens Semper.



1. Helix Garibaldiana Dohrn y Semper.—2. H. Bintuanensis Hidalgo. var.
3. H. basidentata Pfeiffer.—4. H. scrobiculata Pfeiffer. var.—5. H. intorta Sowerby. var.
6. Cochlostyla velata Broderip. var.—7. C. Ticaonica Broderip. var.
8. C. difficilis Pfeiffer.

1 Cochlostyla Luzonica Sowerby. var.—2, 3. Helix Kobelti Möllendorff.
4, 5.—H. carbonaria? Sowerby.—6. Cochlostyla fulgens Sowerby. var.
7. C. Eleræ Möllendorff.



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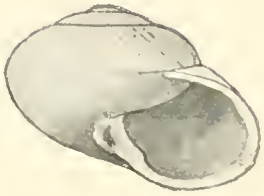

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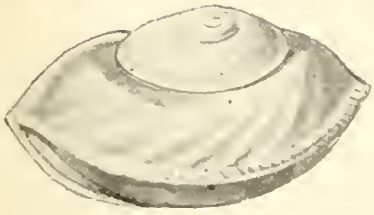

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1. Helix dealbata Broderip.—2, 3. H. casta Pfeiffer.—4, 5. H. avus Pfeiffer.
6, 7. H. Broderipi Pfeiffer.

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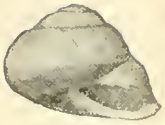

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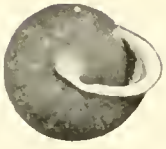

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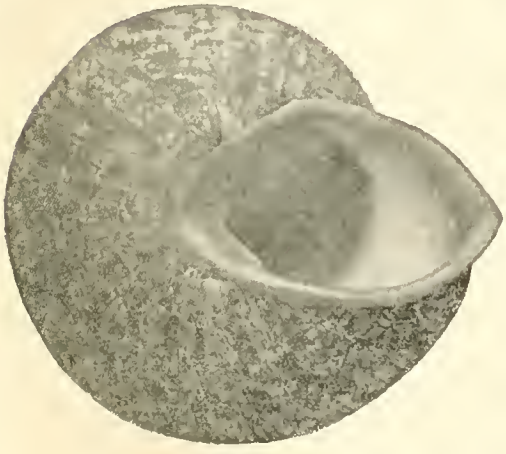

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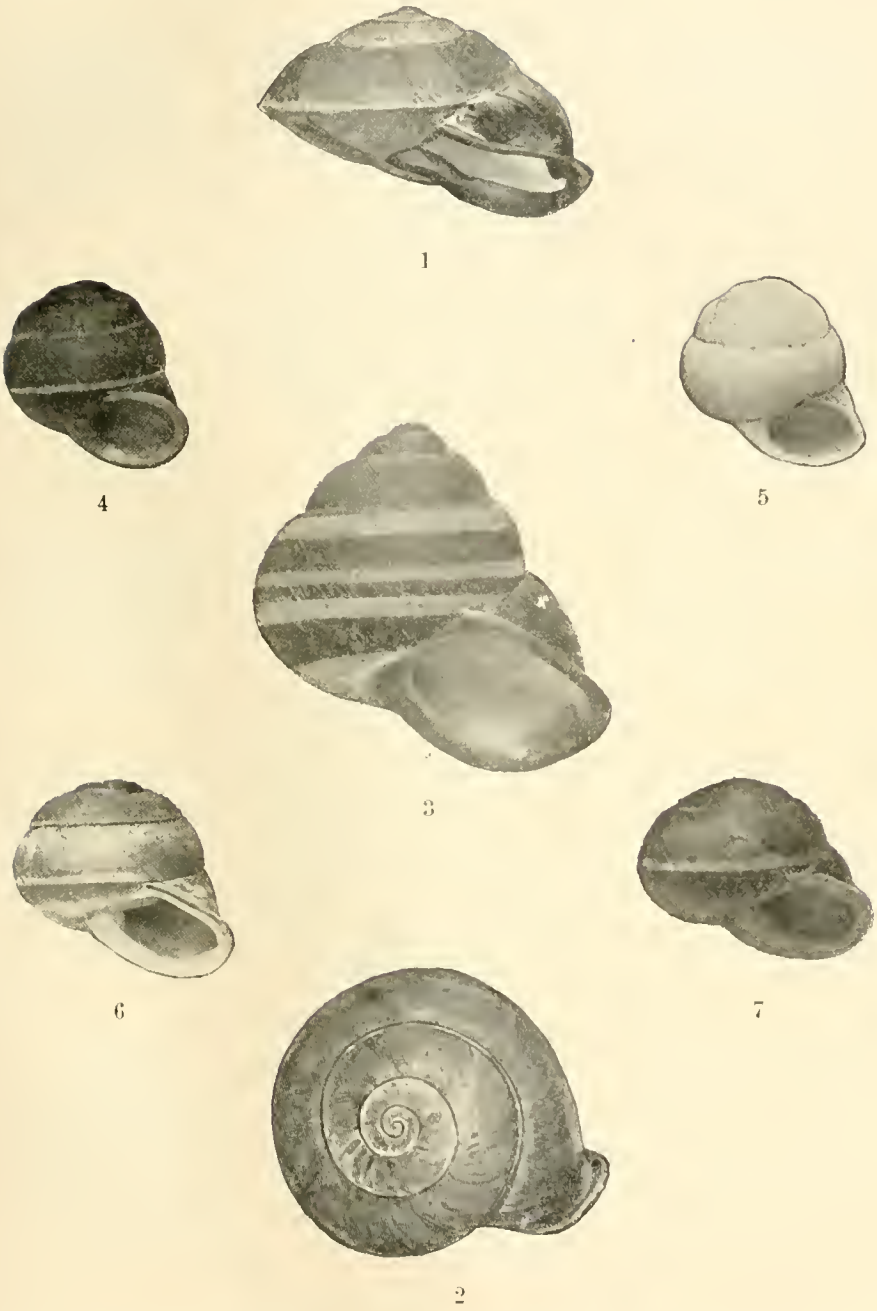
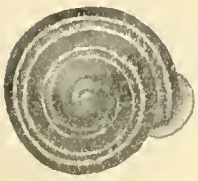
1 á 3. Helix subsulcata Möllendorff.—4, 5. H. brevidens Sowerby.
6. H. undina Pfeiffer.—7, 8. H. Garibaldiana Semper.

1, 2. Helix Garibaldiana Dohrn y Semper. var.—3, 4. H. restricta Pfeiffer.
5, 6. H. viridiflava Möllendorff.—7. H. Sirena Beck. var.—8. H. Hügeli Pfeiffer. var.



1, 2. Helix Heermanni Möllendorff.—3. H. Trailli Pfeiffer.—4, 5. H. campanula Pfeiffer.
6, 7. H. Camelus Pfeiffer.



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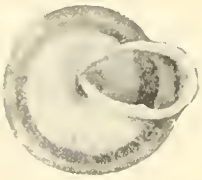

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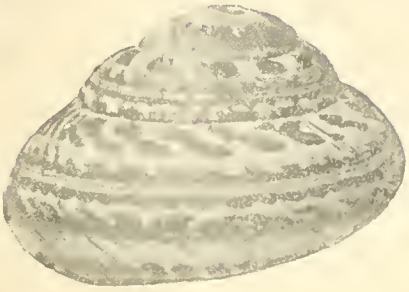

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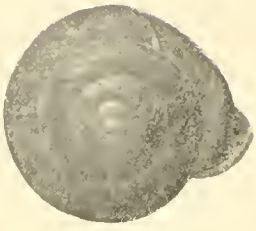

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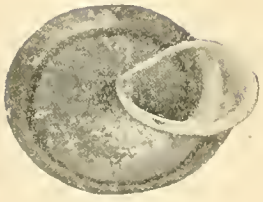

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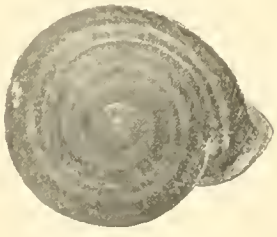

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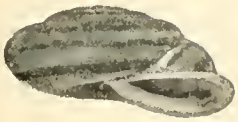
1, 2. Helix (Axina) Schadenbergi Möllendorff.—3, 4. H. platyzona Möllendorff.
5. H. Saranganica Hidalgo.—6. H. horizontalis Pfeiffer. var.
7, 8. H. scrobiculata Pfeiffer.



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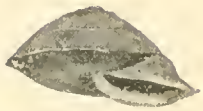

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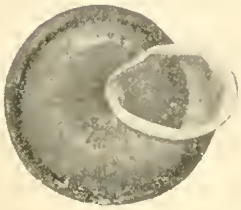

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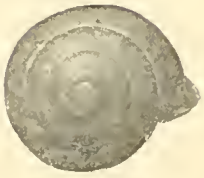

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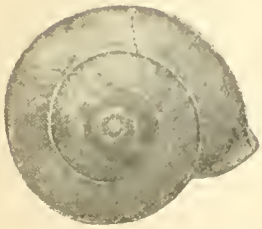

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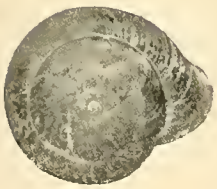

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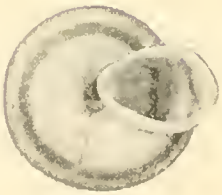

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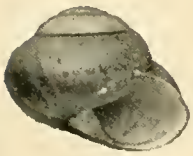
1 á 5. Helix Reeveana Pfeiffer.—6 á 9. H. parmula Broderip.



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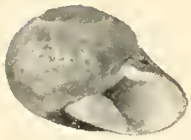

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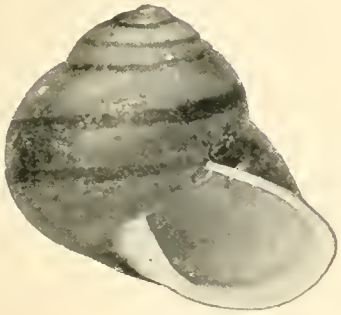

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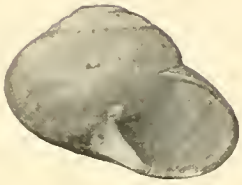

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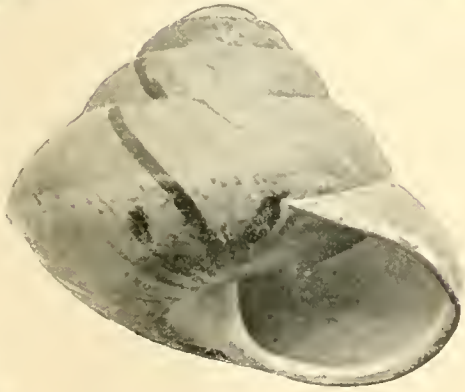

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8

1. Cochlostyla indusiata Pfeiffer. var.— 2. C. streptostoma Möllendorff.— 3. C. mirabilis Ferussac. var.—4, 5. Helix æruginosa Pfeiffer. var.—6. C. Carolus Deshayes. var. 7. C. collodes Sowerby.—8. Helix stolidota Quadras y Möllendorff.

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1. Amphidromus Everetti Fulton.—2. A. nigrofilosus Rochebrune.
3, 4. A. dubius Fulton.—5, 6. A. entobaptus Dohrn.—7, 8. A. versicolor Fulton.

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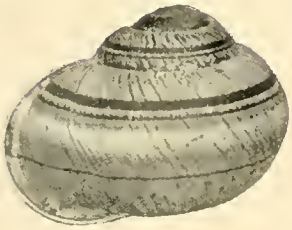

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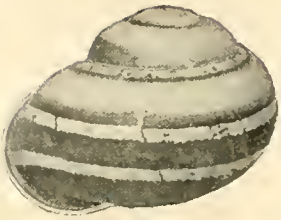

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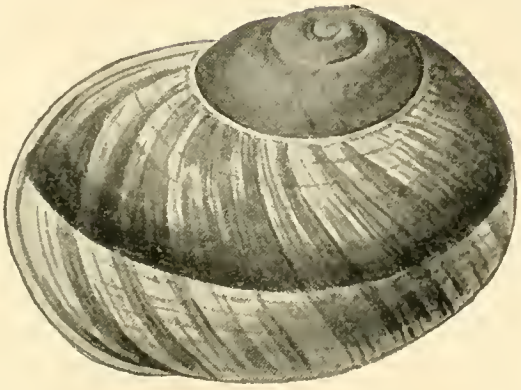

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1. Cochlostyla Lalloensis Pfeiffer.—2. C. pulcherrima Sowerby. var.
3. C. Circe Pfeiffer. var.—4. C. latitans Broderip.—5. C. Albaiensis Sowerby. var.
6. C. depressa Semper. var.

1 á 3. Cochlostyla fictilis Broderip.—4. C. Leopardus Pfeiffer.
5. C. Mindoroensis Broderip.—6. C. cincinna Sowerby. var.—7. C. Philippinensis Pfeiffer.
8. C. Pithogaster Ferussac. var.

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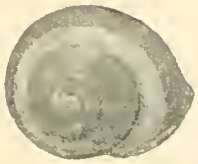

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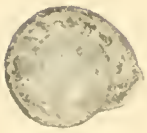

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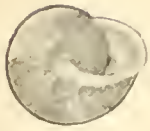

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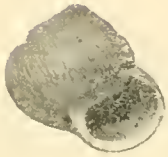

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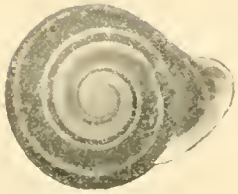

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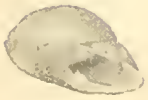

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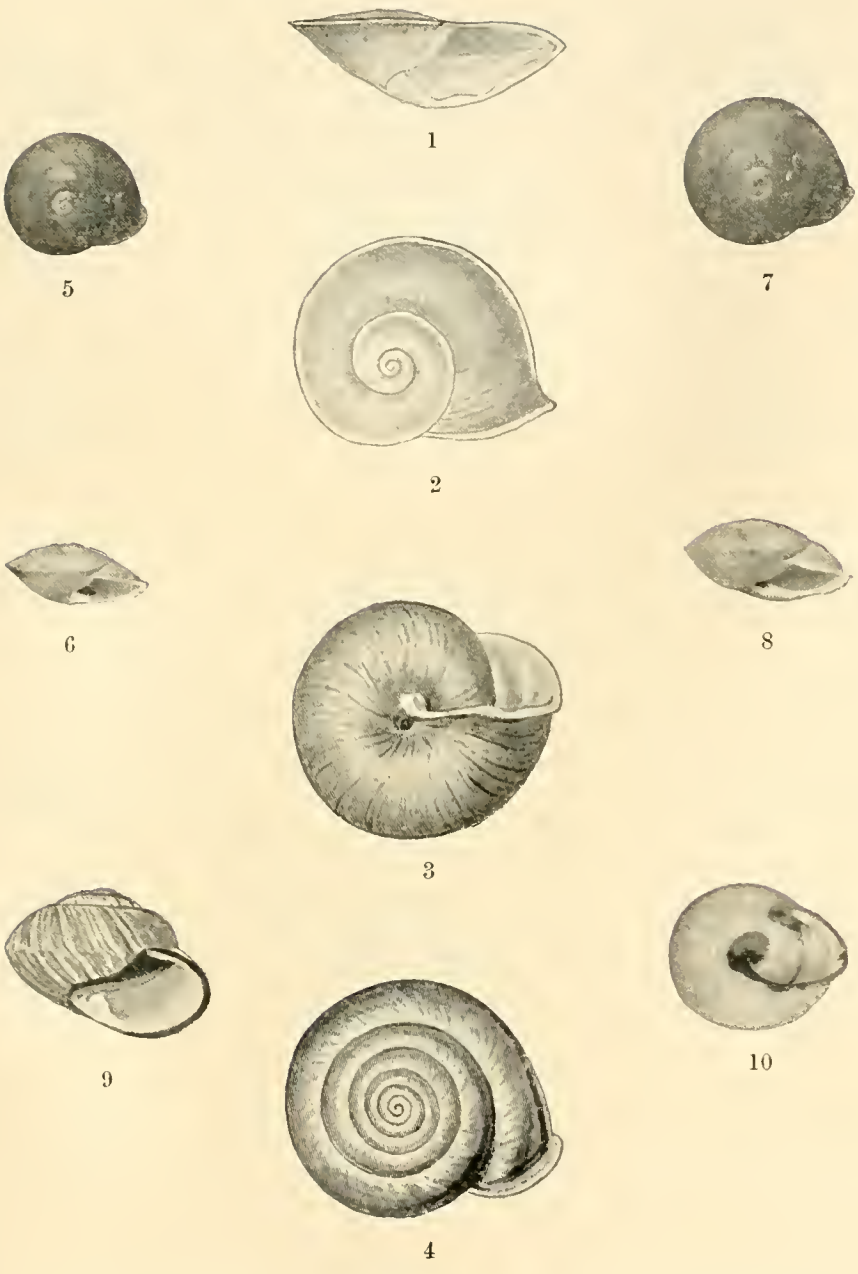
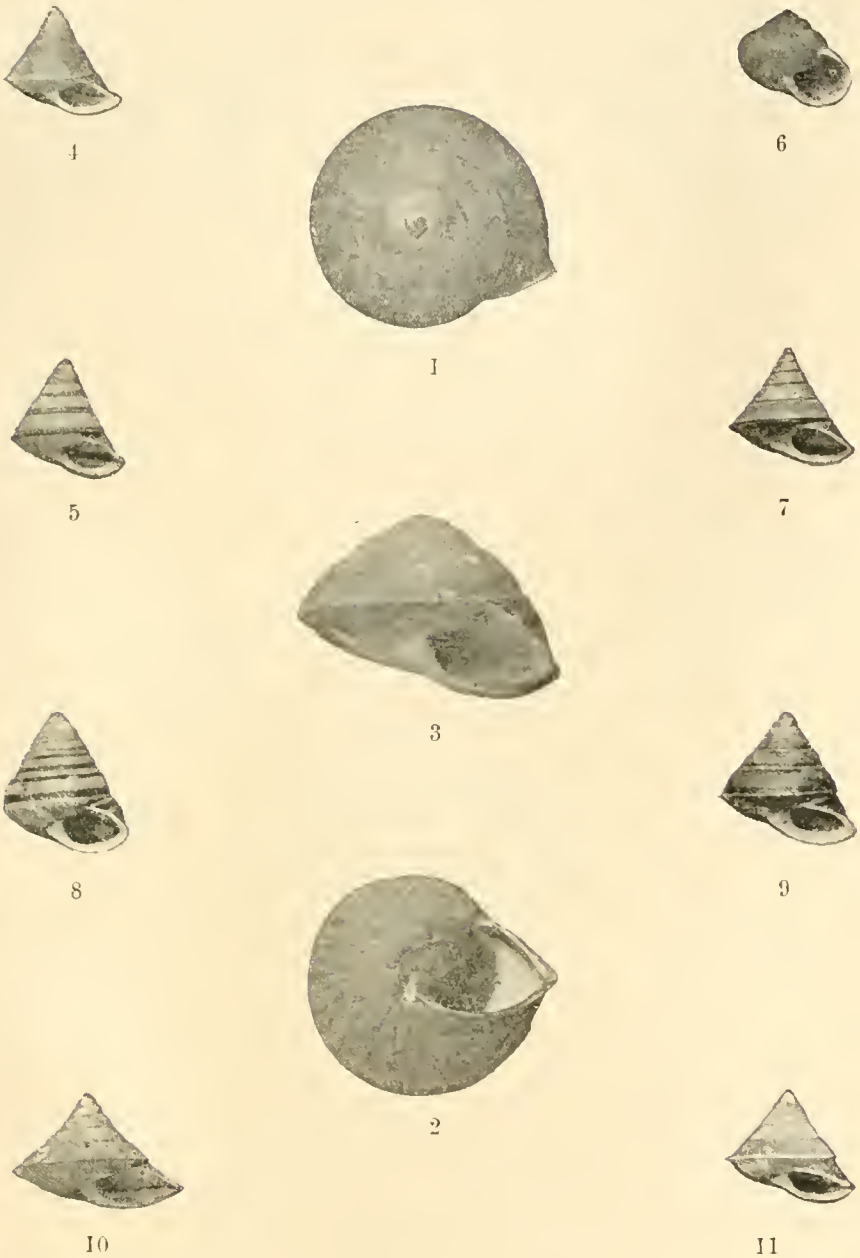
11

1 á 3. Helix psittacina Deshayes.—4, 5. H. flavopicta Quadras y Möllendorff.
6. H. Mighelsiana Pfeiffer.—7, 8. H. Gmeliniana Pfeiffer.—9. H. Thersites Broderip. var.
10. H. Quadrasi Möllendorff.—11. H. Schadenbergi (Eulota) Möllendorff.



1, 2. Helix Reginæ Broderip. var. Elisabethæ.—3, 4. H. caliginosa Adams y Reeve.
5, 6. H. cristatella Quadras y Möllendorff.—7, 8. H. malleata Quadras y Möllendorff.
9. H. phloiodes Pfeiffer.—10. H. paradoxa Pfeiffer. var.



1, 2. Helix Zebuensis Broderip. var.—3. H. carbonaria Sowerby. var.
4, 5. H. Fernandezi Hidalgo.—6. H. dissimilis Semper.—7. H. stenodesma Quadras y Möllendorff.—8. H. catocyrta Quadras y Möllendorff.—9. H. pœcilotrochus Möllendorff.
10. H. Planasi Hidalgo.—11. H. apex Quadras y Möllendorff.

1 á 3. Cochlostyla pudibunda Semper. — 4 á 6. C. Dautzenbergi Hidalgo.
7, 8. C. denticulata Jay.

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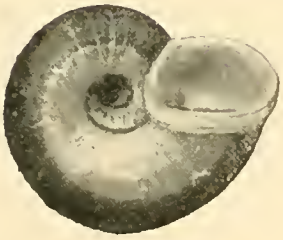

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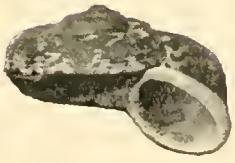

8

1 á 8.—Cyclophorus Woodianus Lea. variedades.

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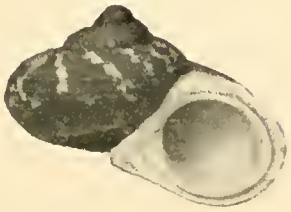

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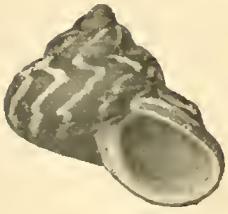

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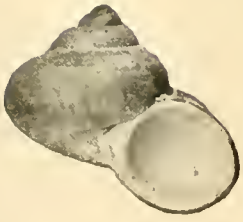

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8

1. Cyclophorus Barandæ Hidalgo.—2 á 5. C. tigrinus Sowerby.
6 á 8. C. Prietoi Hidalgo.

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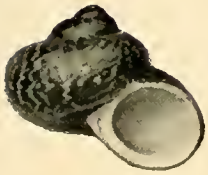

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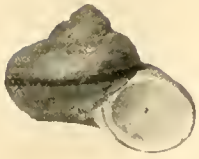

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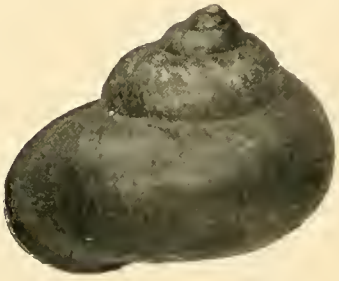

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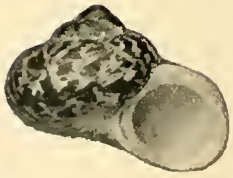

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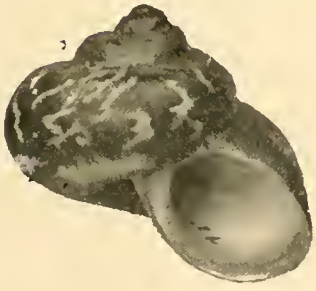

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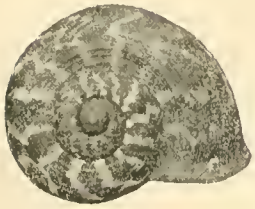
1 á 4. Cyclophorus validus Sowerby.—5 á 7. C. picturatus Pfeiffer.



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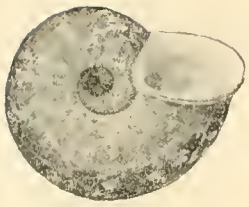

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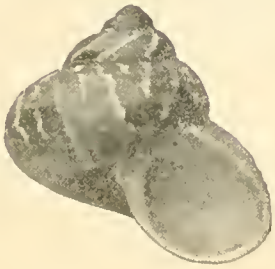

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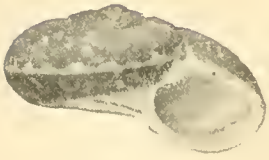

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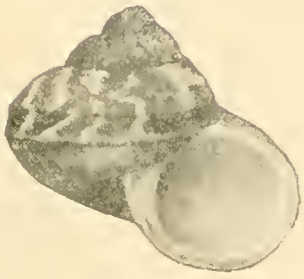

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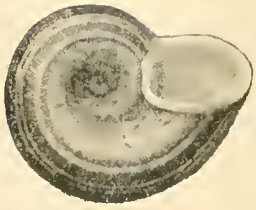

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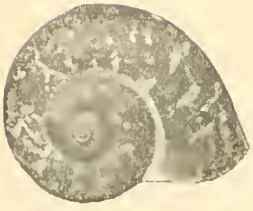
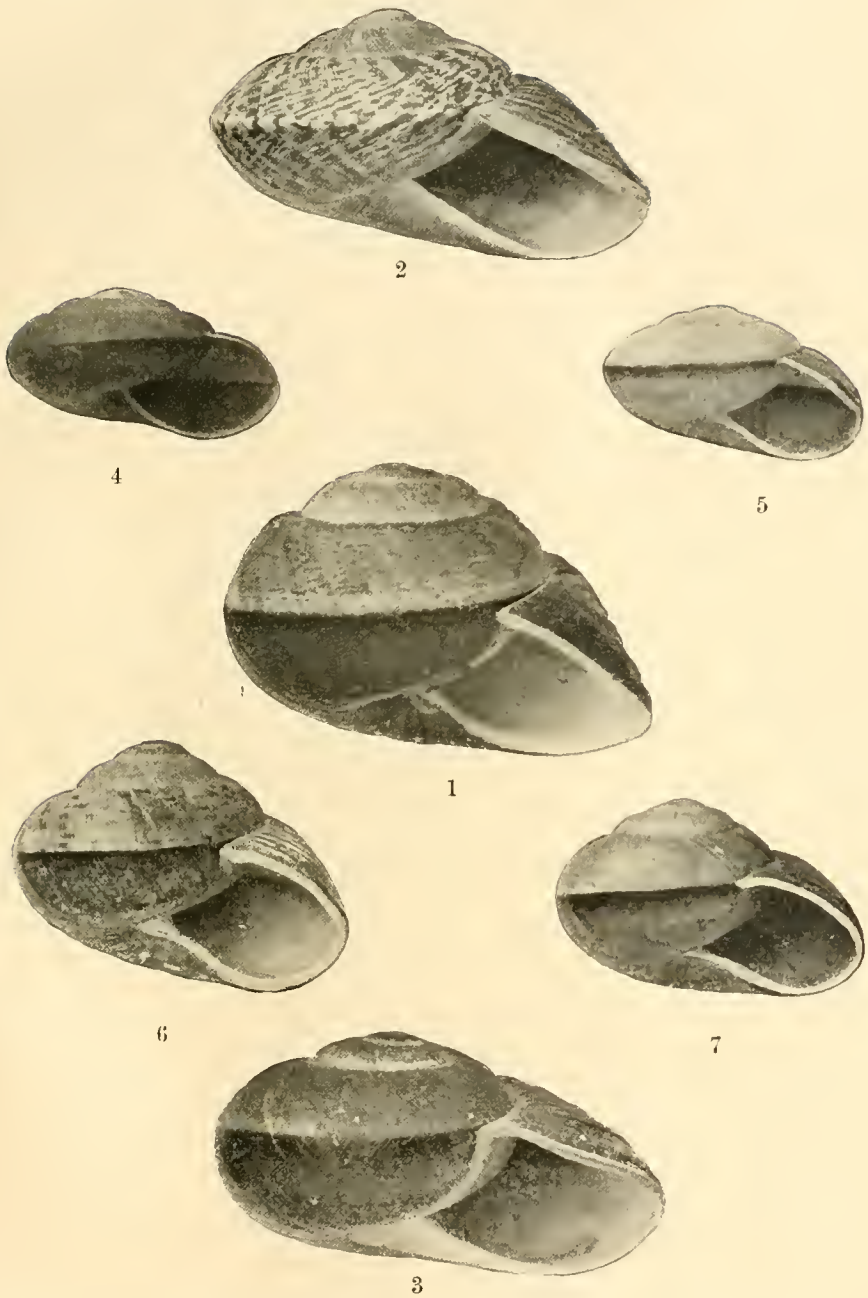


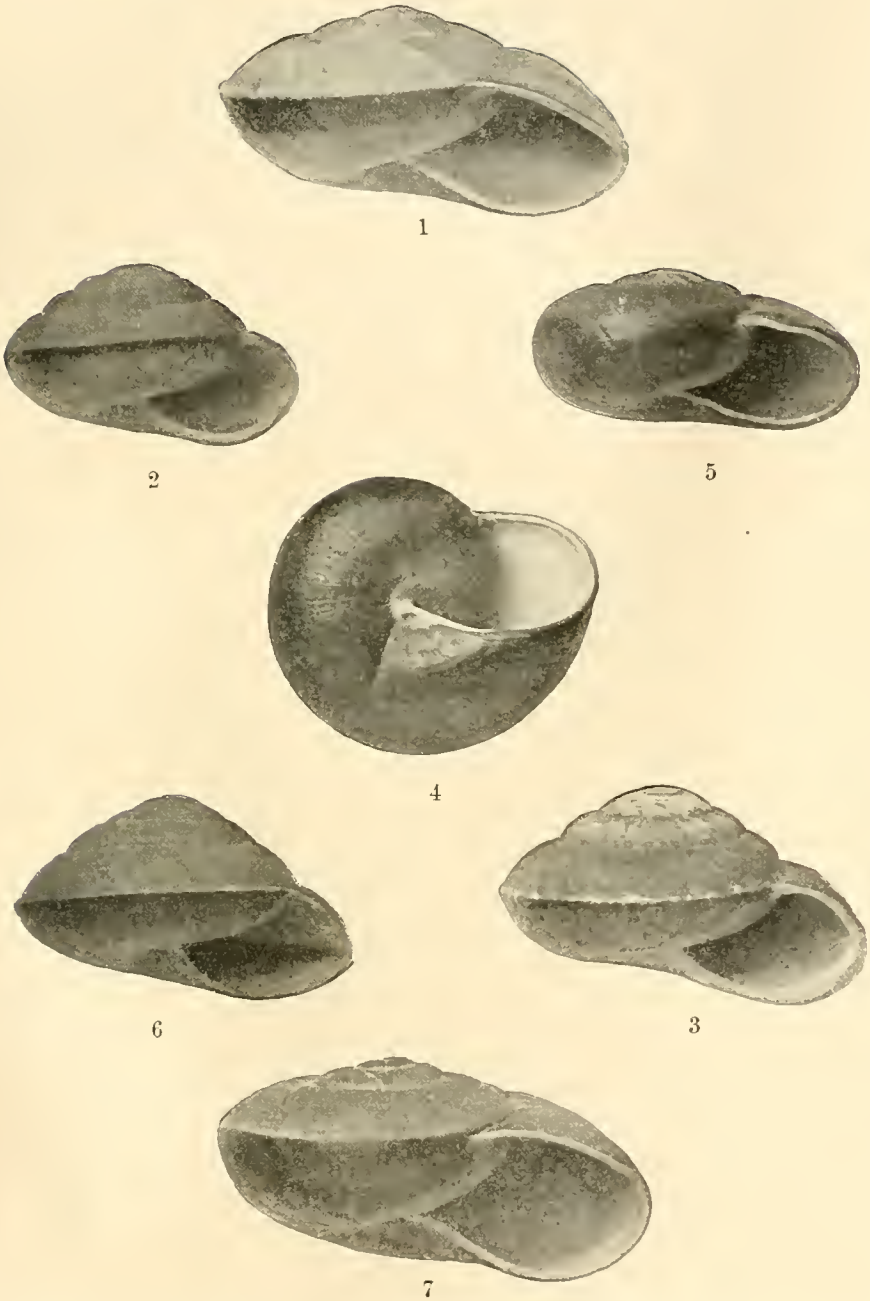
8

1. Cyclophorus Daraganicus Hidalgo.
2. C. aetarum Möllendorff.—3, 4. C. Woodianus Lea. var.—5 á 8. C. Smithi Hidalgo.

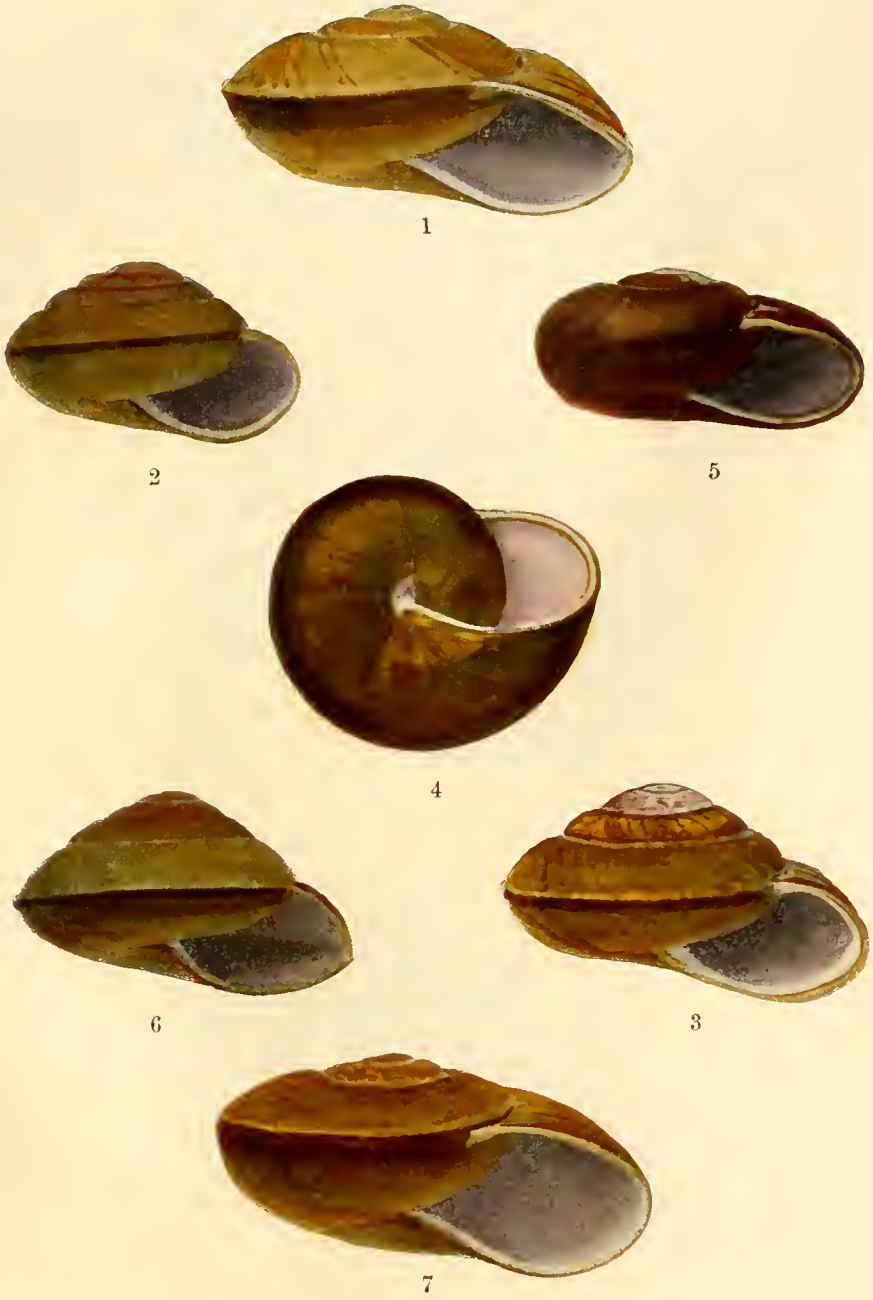


1. Nanina Rhea Pfeiffer.—2. N. Zeus Jonas. var.—3. N. Antonii Semper.
4. N. semiglobosa Pfeiffer.—5 á 7. N. sagittifera Pfeiffer. variedades.

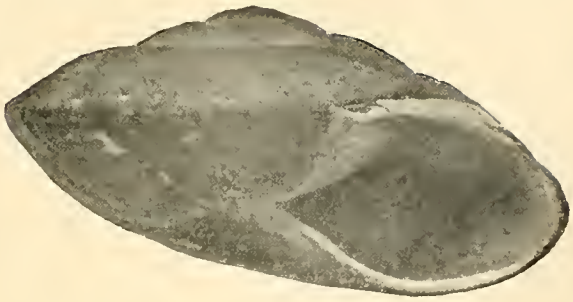
1. Nanina Rhea Pfeiffer.—2. N. Zeus Jonas. var.—3. N. Antonii Semper.
4. N. semiglobosa Pfeiffer.—5 á 7. N. sagittifera Pfeiffer. variedades.



1. Nanina Lamarckiana Lea.—2 y 3. N. connectens Möllendorff.—4 y 5. N. dvitija Semper.—6. N. semiglobosa Pfeiffer.—7. N. Darondeaui Souleyet.



1. Nanina Lamarckiana Lea.—2 y 3. N. connectens Möllendorff.—4 y 5. N. dvitija Semper.—6. N. semiglobosa Pfeiffer.—7. N. Darondeaui Souleyet.



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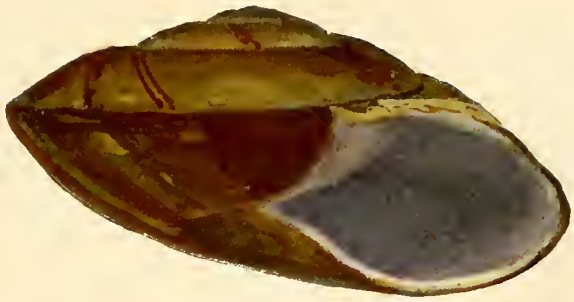

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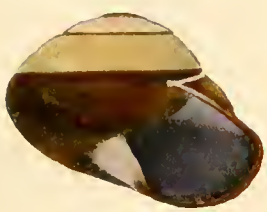
1. Nanina Uranus Pfeiffer.—2 y 3. N. ovum Valenciennes. var.

1 y 2. Helix intorta Sowerby. var.—3 y 4. H. monochroa Sowerby. var.
5. Nanina semiglobosa Pfeiffer. var.
6. N. Semperi Möllendorff.—7 y 8. Helix Trailli Pfeiffer. var.



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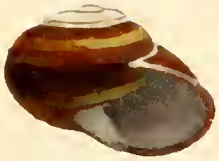

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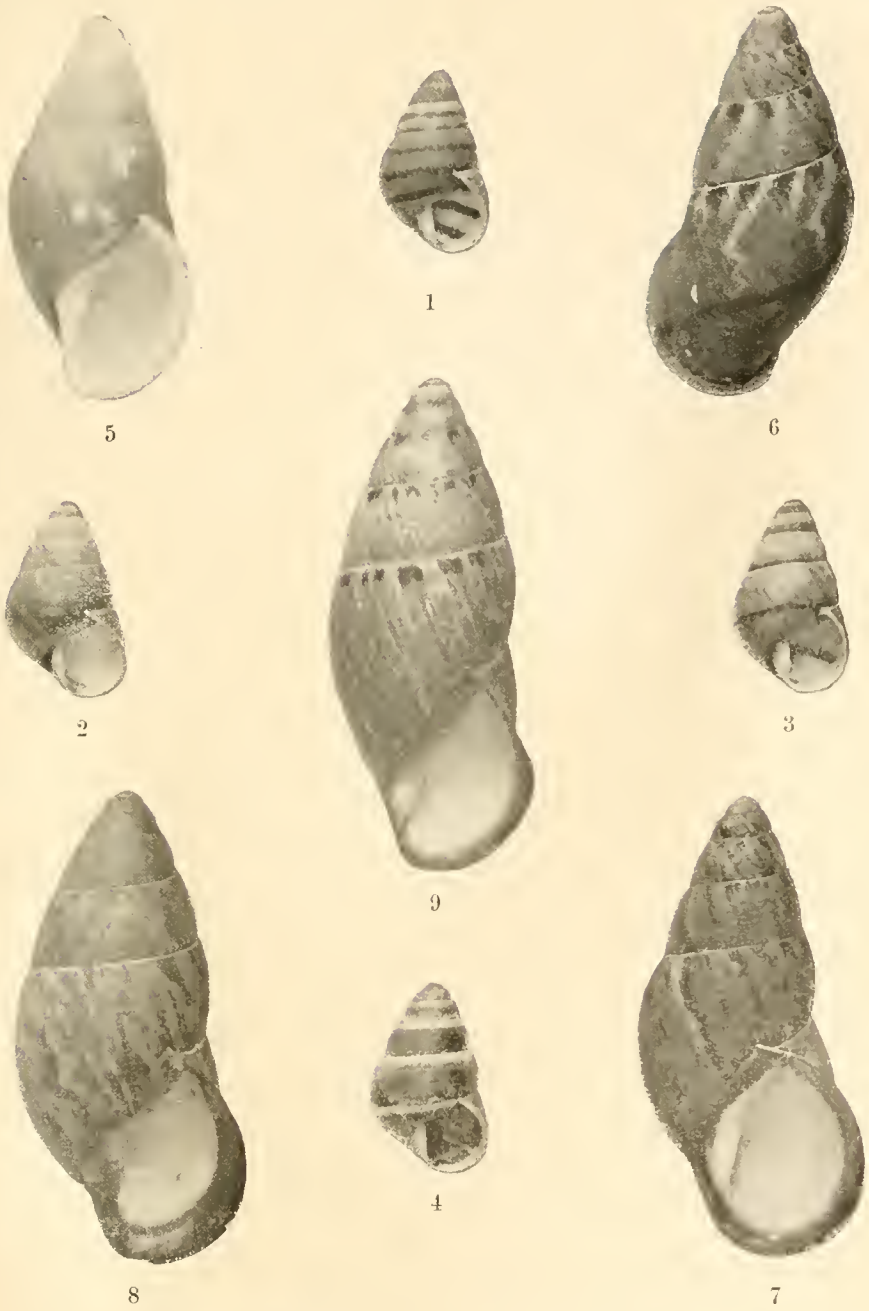
1 y 2. Helix intorta Sowerby. var.—3 y 4. H. monochroa Sowerby. var.
5. Nanina semiglobosa Pfeiffer. var.
6. N. Semperi Möllendorff.—7 y 8. Helix Trailli Pfeiffer. var.

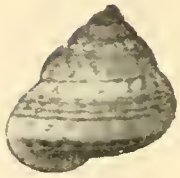


1 á 4. Cochlostyla Quadrasi Hidalgo.—5 á 7. C. electrica Reeve.—8, 9. C. chrysalidiformis Sowerby.

1 á 4. Cochlostyla Quadrasi Hidalgo.—5 á 7. C. electrica Reeve.—8, 9. C. chrysalidiformis Sowerby.

1

2



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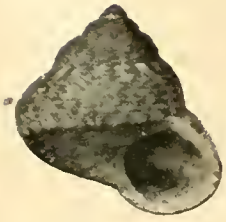

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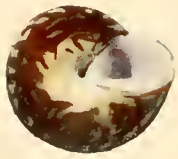
9

1 á 9. Cyclophorus Sowerbyi Hidalgo.
(Figuras del doble del tamaño natural.)



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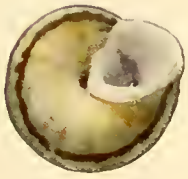

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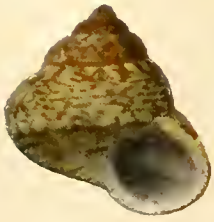

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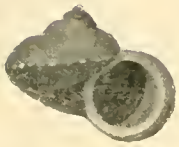
9

1 á 9. Cyclophorus Sowerbyi Hidalgo.
(Figuras del doble del tamaño natural.)

1



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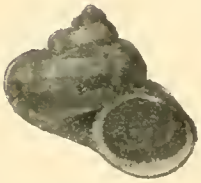

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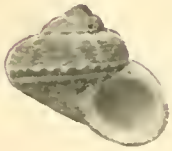

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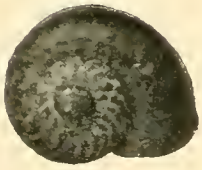

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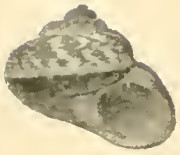

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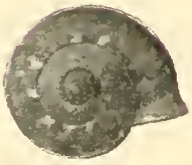
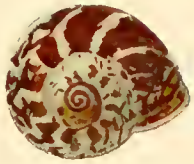


9

1. Cyclophorus Thersites Shuttleworth.—2, 3. C. acutimarginatus Sowerby.
4, 5. C. leucostoma Pfeiffer.
6, 7. C. Batanicus Quadras y Möllendorff.—8. 9. C. canaliferus Sowerby.



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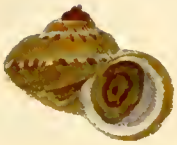

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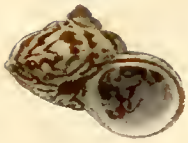

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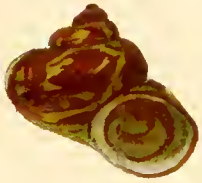

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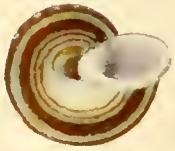

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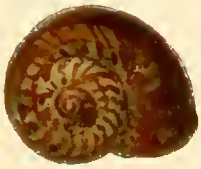

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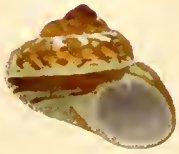

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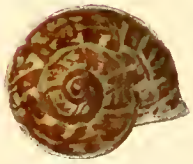
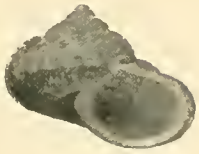


9

1. Cyclophorus Thersites Shuttleworth.—2, 3. C. acutimarginatus Sowerby.
4, 5. C. leucostoma Pfeiffer.
6, 7. C. Batanicus Quadras y Möllendorff.—8. 9. C. canaliferus Sowerby.



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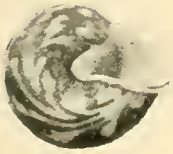

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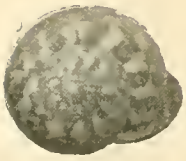

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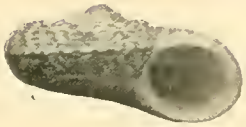

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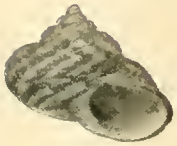

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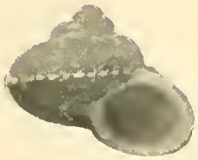

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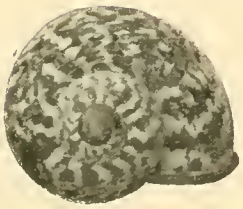

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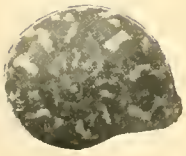

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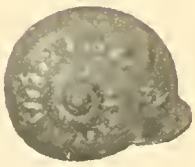
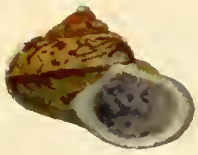


9

1, 2. Cyclophorus sericinus Quadras y Möllendorff.
3, 4. C. Coronensis Möllendorff.—5, 6. C. Woodianus Lea. var. intercedens.
7 á 9. C. Semperi Kobelt.



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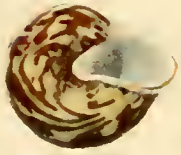

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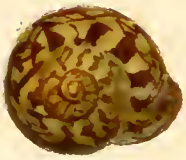

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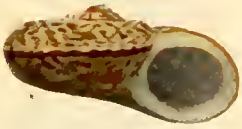

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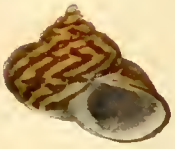

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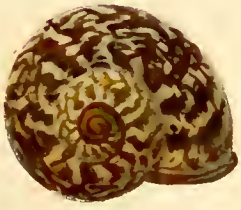

6

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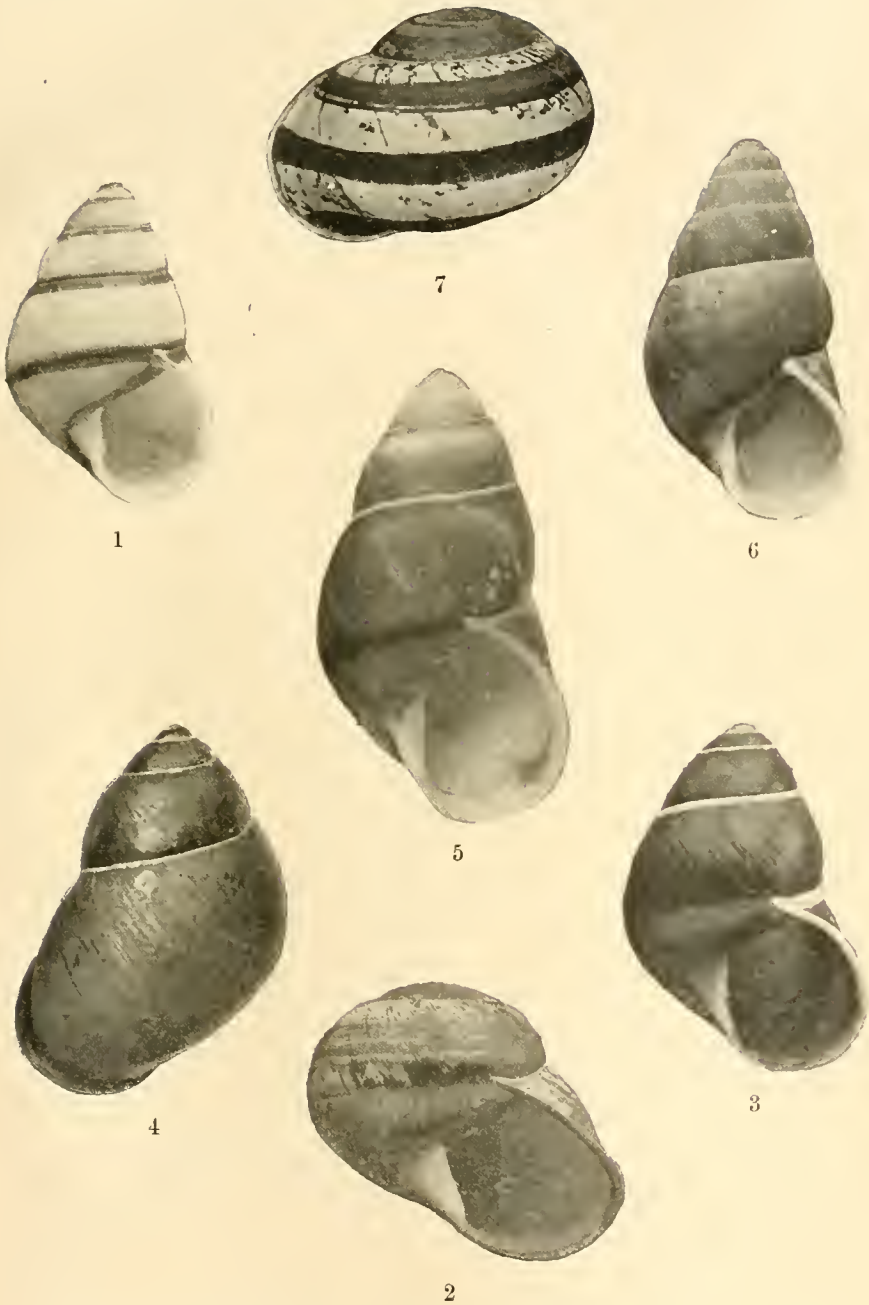
9

1, 2. Cyclophorus sericinus Quadras y Möllendorff.
3, 4. C. Coronensis Möllendorff.—5, 6. C. Woodianus Lea. var. intercedens.
7 á 9. C. Semperi Kobelt.



1. Cochlostyla Hindsii Reeve.—2. C. Hidalgoi Möllendorff.—3 á 5. C. smaragdina Reeve. var.—6. C. decorata Ferussac. var.—7. C. Circe Pfeiffer. var.

1. Cochlostyla Hindsii Reeve.—2. C. Hidalgoi Möllendorff.—3 á 5. C. smaragdina Reeve. var.—6. C. decorata Ferussac. var.—7. C. Circe Pfeiffer. var.

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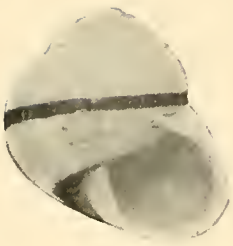

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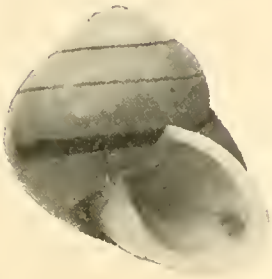

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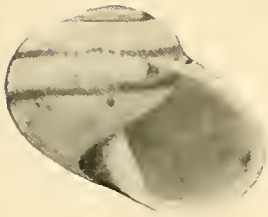

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Lá 6.—Cochlostyla mirabilis Ferussac. var.—7, 8. C. Albaiensis Sowerby. var.

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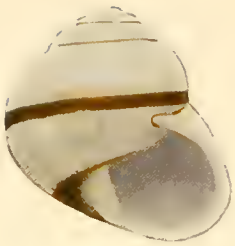

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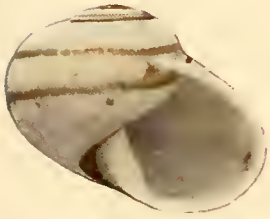

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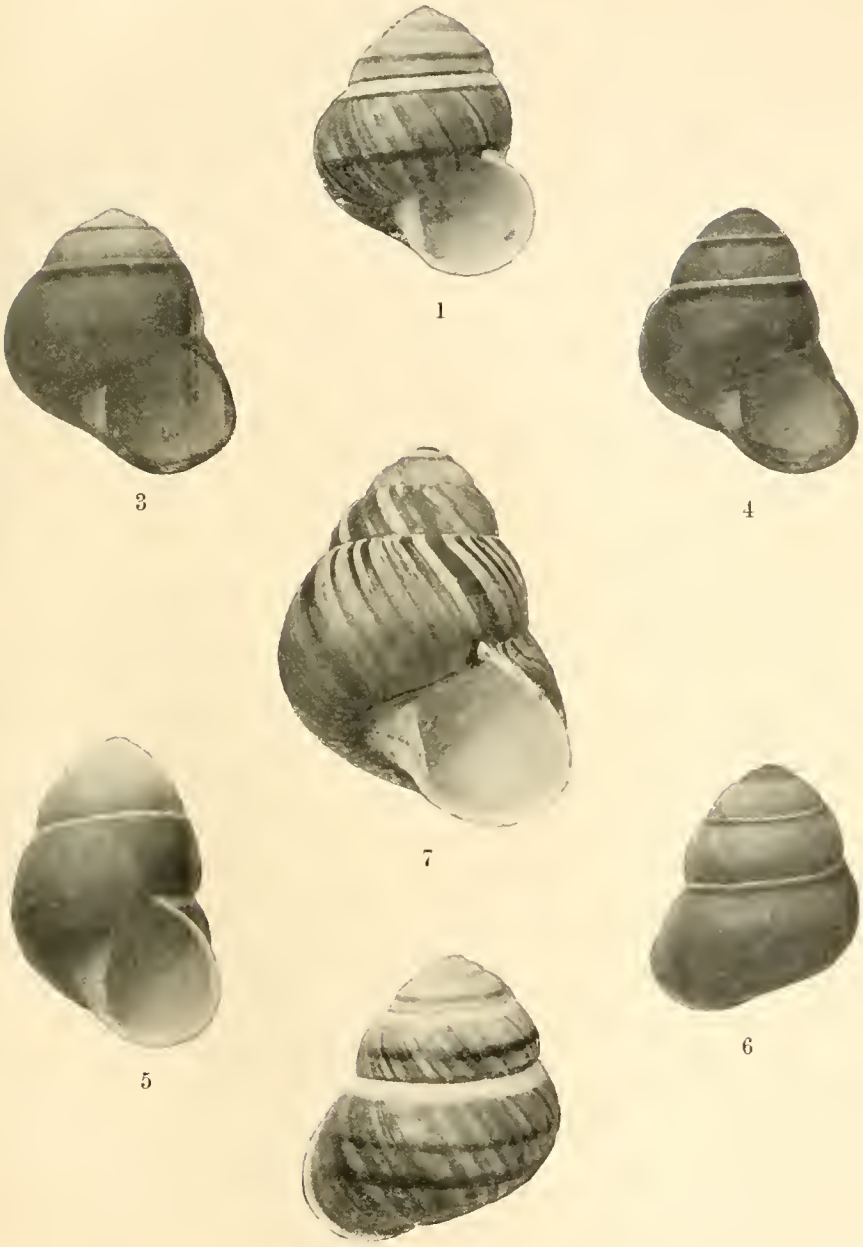
1 á 6.—Cochlostyla mirabilis Ferussac. var.—7, 8. C. Albaiensis Sowerby. var.



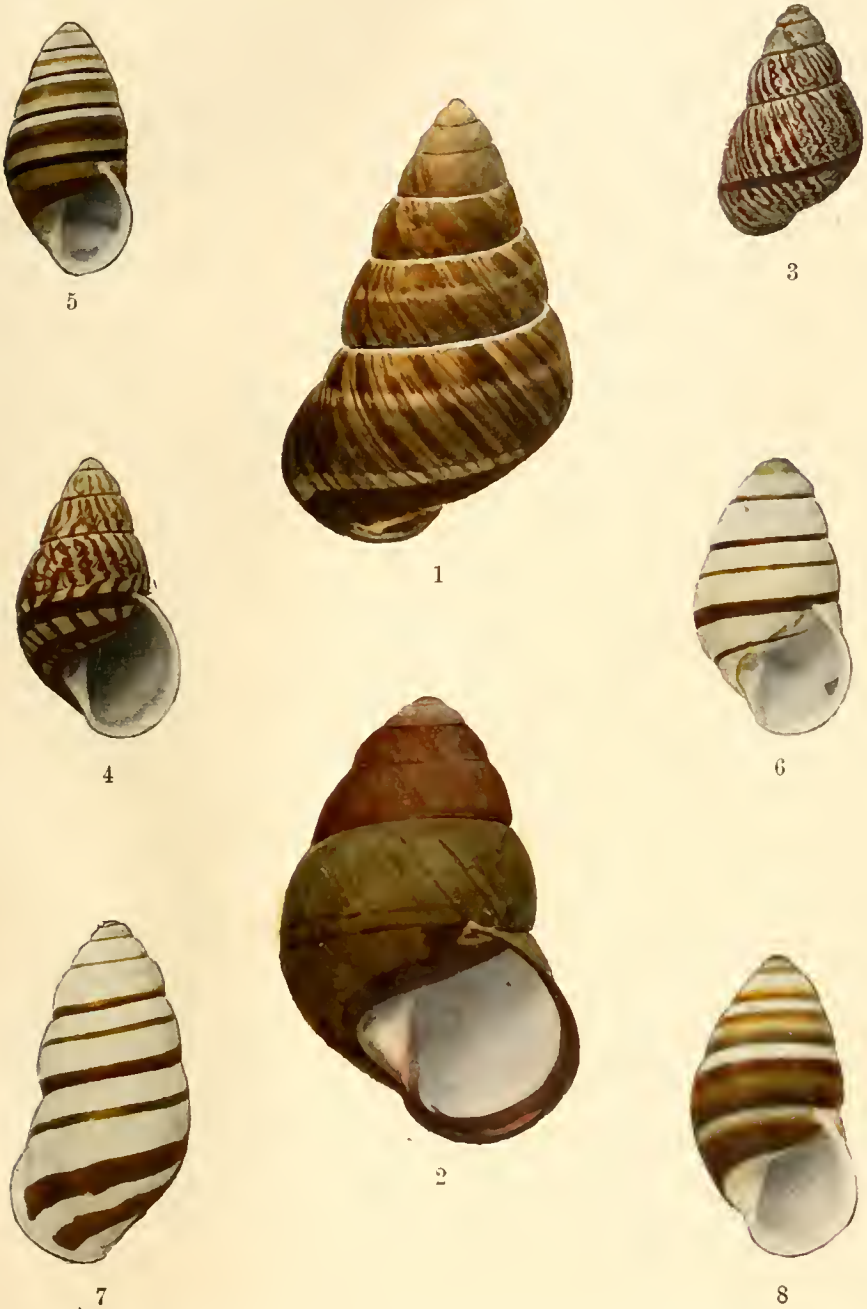
1, 2. Cochlostyla viridostriata Lea. var.—3 á 6. C. florida Sowerby. var.
7. C. Ticaonica Broderip. var.

1, 2. Cochlostyla viridostriata Lea. var.—3 á 6. C. florida Sowerby. var.
7. C. Ticaonica Broderip. var.

1. Cochlostyla porracea Jay. var.—2, 3. C. Mindoroensis Broderip. var.
4. C. Imperator Pfr. var.—5. C. Pictor Broderip. var.—C. fulgetrum Broderip. var.

1. Cochlostyla porracea Jay. var.—2, 3. C. Mindoroensis Broderip. var.
4. C. Imperator Pfr. var.—5. C. Pictor Broderip. var.—C. fulgetrum Broderip. var.

1. Cochlostyla bicolorata Lea.—2. C. intermedia Quadras y Möllendorff.
3 y 4. C. Fischeri Hidalgo. var.—5 á 8. C. ovoidea Lamarck. var.



1. Cochlostyla bicolorata Lea.—2. C. intermedia Quadras y Möllendorff.
3 y 4. C. Fischeri Hidalgo. var.—5 á 8. C. ovoidea Lamarck. var.

1. Cochlostyla fulgens Sowerby. var.—2. C. rustica Mousson. var.
3. C. virgata Jay. var.—4. C. porracea Jay. var.—5. C. Limansauensis Semper var.
6. C. Sphærion Sowerby. var.—7. C. Dumonti Pfeiffer. var.
8. C. Quadrasi Hidalgo. var.

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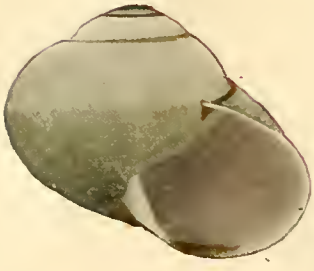

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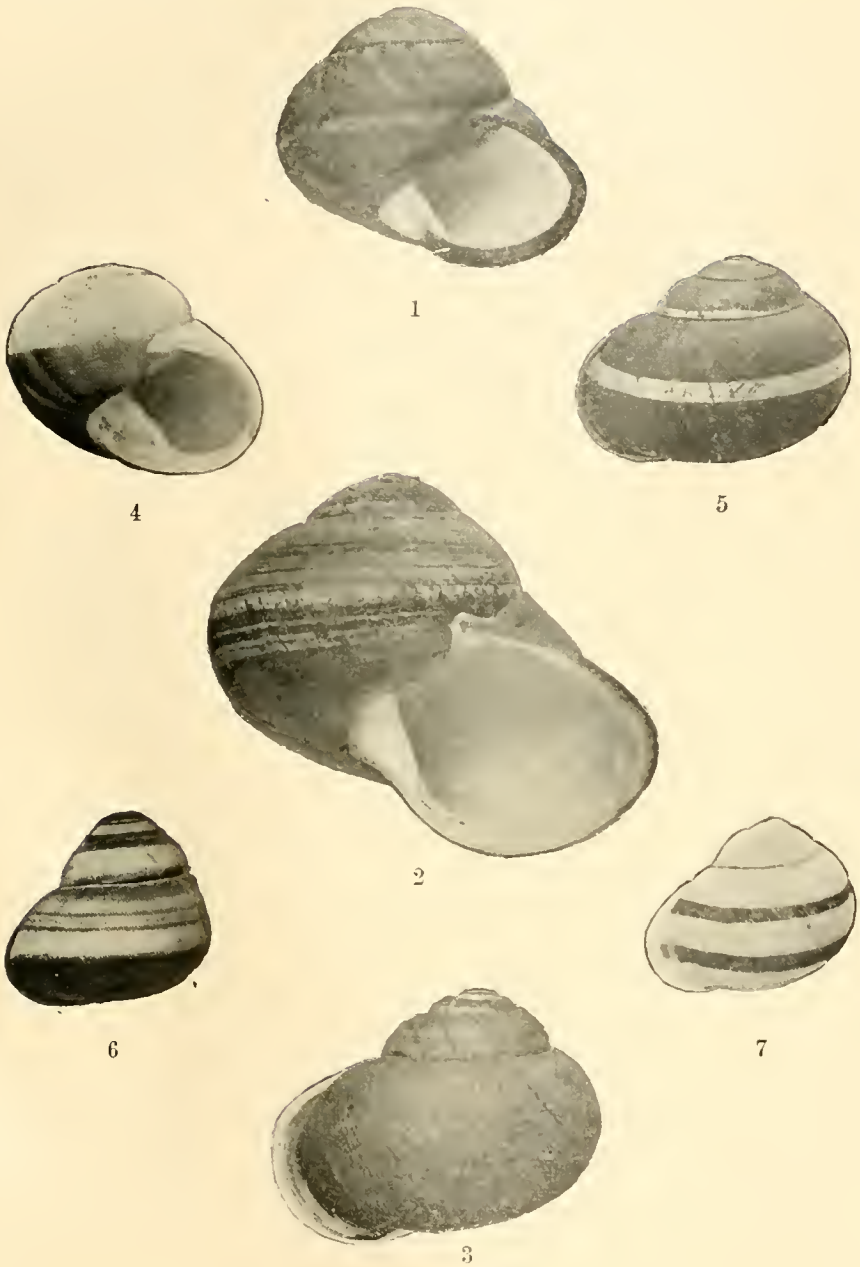
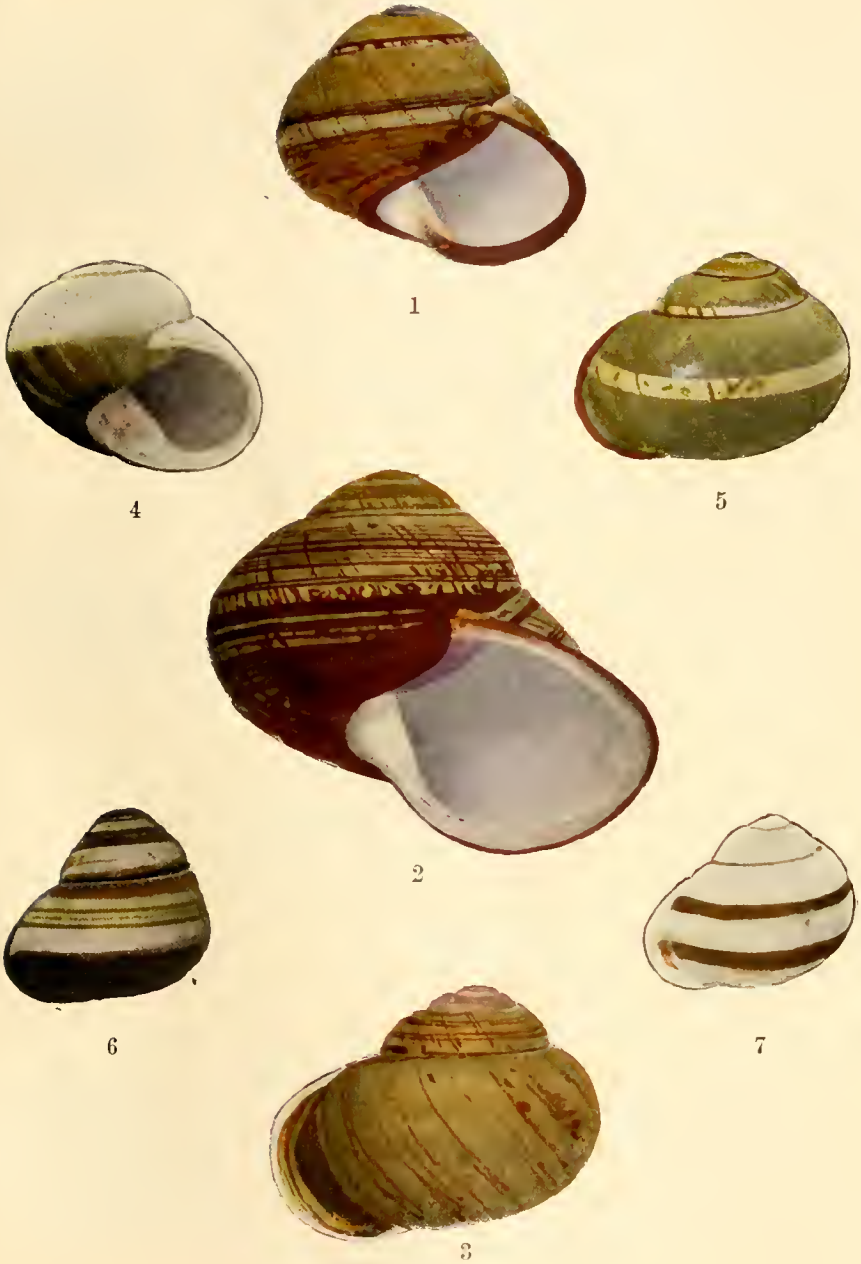
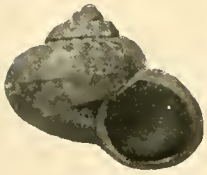
1. Cochlostyla fulgens Sowerby. var.—2. C. rustica Mousson. var.
3. C. virgata Jay. var.—4. C. porracea Jay. var.—5. C. Limansauensis Semper var.
6. C. Sphærion Sowerby. var.—7. C. Dumonti Pfeiffer. var.
8. C. Quadrasi Hidalgo. var.



1. Cochlostyla melanocheila Valenciennes. var.
2. C. ferruginea Lea.—3. C. Luzonica Sowerby. var.—4. C. Dalli Hidalgo.
5. C. erythrospira Möllendorff. var.—6. C. dimera Jonas. var.
7. C. Albaiensis Sowerby. var.



1. Cochlostyla melanocheila Valenciennes. var.
2. C. ferruginea Lea.—3. C. Luzonica Sowerby. var.—4. C. Dalli Hidalgo.
5. C. erythrospira Möllendorff. var.—6. C. dimera Jonas. var.
7. C. Albaiensis Sowerby. var.



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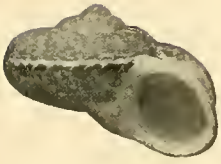

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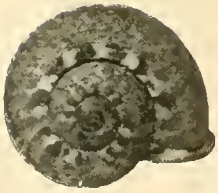

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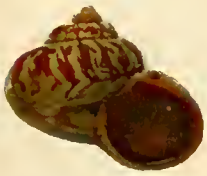
1. Cyclophorus cruentus Martens.—2. C. Benguetensis Hidalgo.
3 á 5. C. appendiculatus Pfeiffer.—6, 7. C. appendiculatus Pfeiffer. var.
8. C. Woodianus Lea. var.



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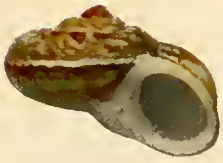

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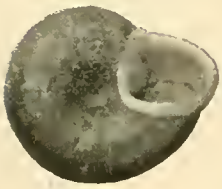
1. Cyclophorus cruentus Martens.—2. C. Benguetensis Hidalgo.
3 á 5. C. appendiculatus Pfeiffer.—6, 7. C. appendiculatus Pfeiffer. var.
8. C. Woodianus Lea. var.



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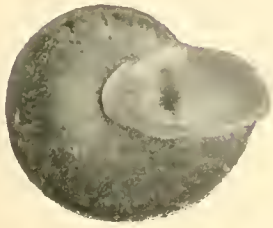

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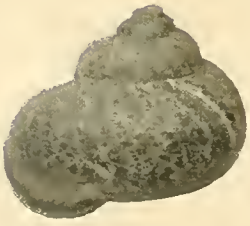

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1, 2. Cyclophorus Quadrasi Hidalgo.—3 á 8. C. linguiferus Sowerby.

1

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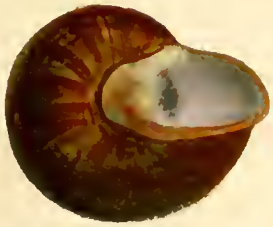

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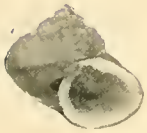
1, 2. Cyclophorus Quadrasi Hidalgo.—3 á 8. C. linguiferus Sowerby.

1



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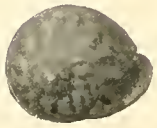

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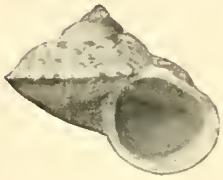

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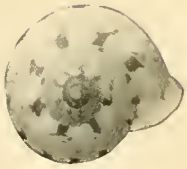

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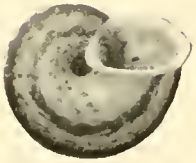

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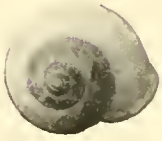

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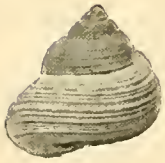

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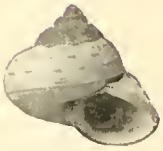
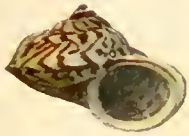


9

1 á 4. Cyclophorus acutimarginatus Sowerby.
5, 6. C. Palawanensis Smith.—7 á 9. C. Fernandezi Hidalgo.



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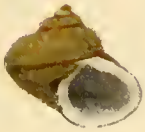

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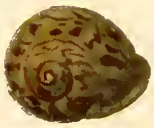

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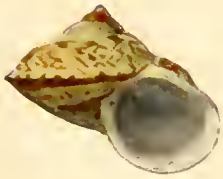

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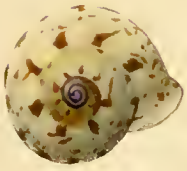

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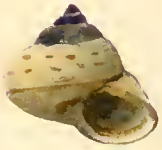

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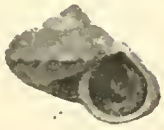
1 á 4. Cyclophorus acutimarginatus Sowerby.
5, 6. C. Palawanensis Smith.—7 á 9. C. Fernandezi Hidalgo.



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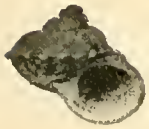

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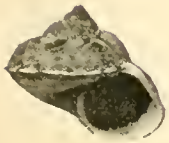

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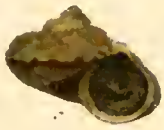
7

1. Cyclophorus pterocyclus Möllendorff.—2, 3. C. lingulatus Sowerby.
4 á 7. C. Reevei Hidalgo.—8, 9. C. Bustoi Hidalgo.



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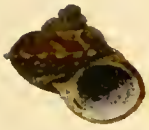

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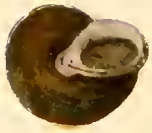

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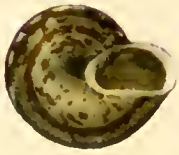

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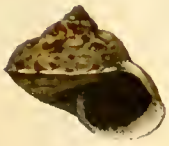

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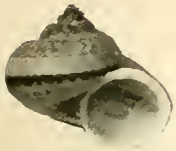
7

1. Cyclophorus pterocyclus Möllendorff.—2, 3. C. lingulatus Sowerby.
4 á 7. C. Reevei Hidalgo.—8, 9. C. Bustoi Hidalgo.



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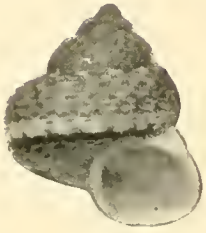

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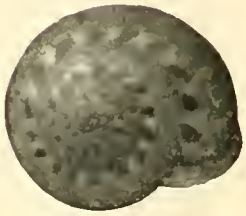

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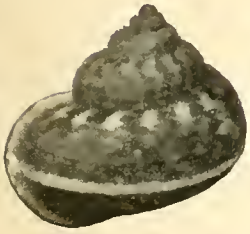

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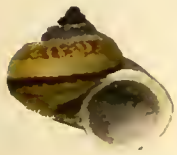
1. Helix Thersites Broderip. — 2. Cyclophorus punctatus Grateloup.
3 á 6. C. Philippinarum Sowerby. — 7, 8. Japonia Guimarasensis Sowerby.
(Figuras 3 á 8 del doble del tamaño natural.)



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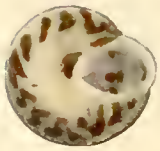

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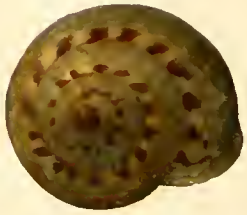

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(Figuras 3 á 8 del doble del tamaño natural.)

182

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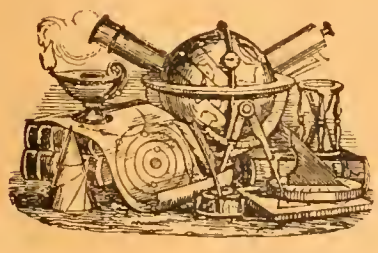

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182

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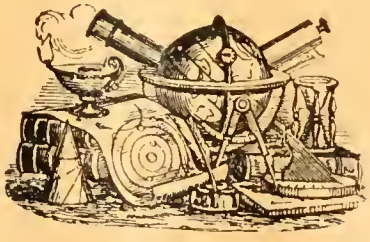

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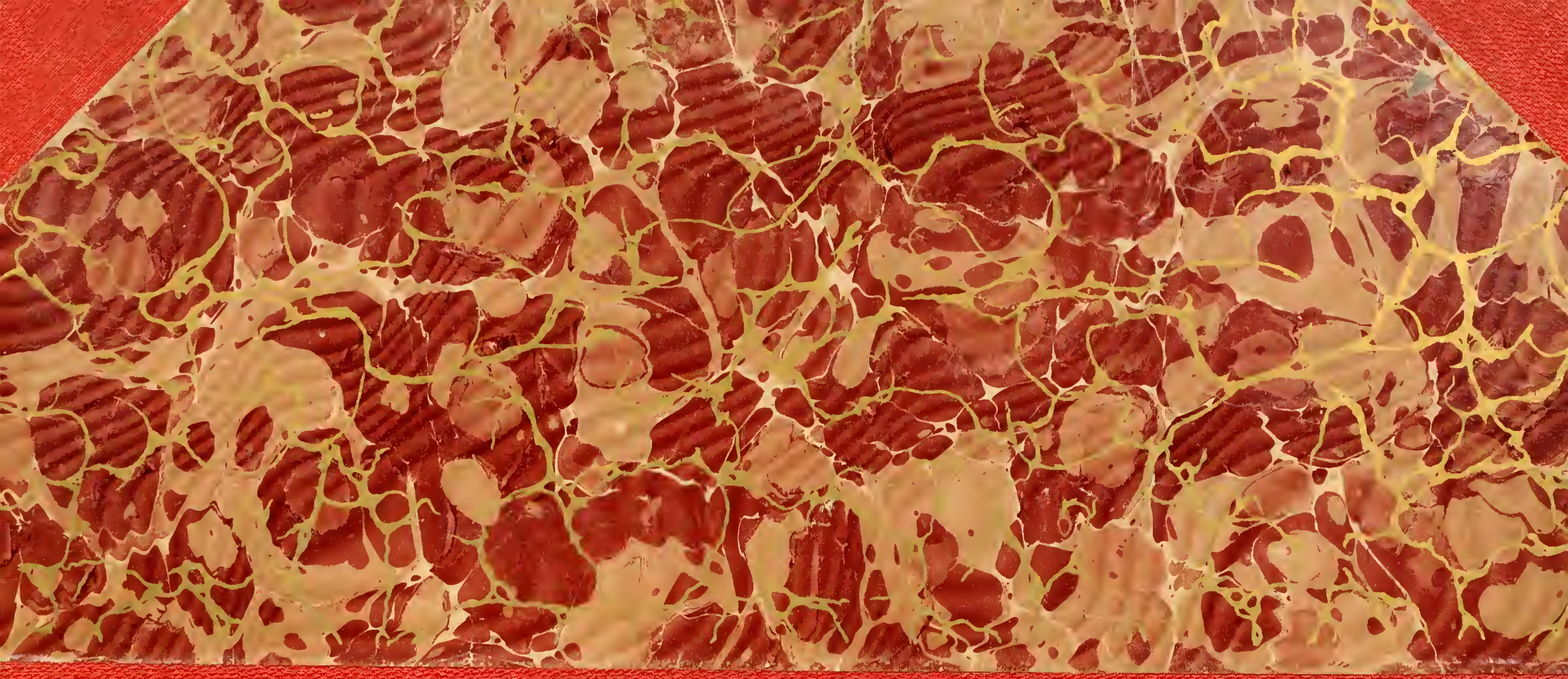
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